FCC RF Test Report

APPLICANT	:	**Sony Mobile Communications Inc.**
EQUIPMENT	:	**GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac, ANT+, and NFC**
BRAND NAME	:	**Sony**
FCC ID	:	**PY7-PM0908**
STANDARD	:	**FCC Part 15 Subpart C §15.247**
CLASSIFICATION	:	**(DSS) Spread Spectrum Transmitter**

The product was received on Jul. 16, 2015 and testing was completed on Aug. 28, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR571612A	Rev. 01	Initial issue of report	Sep. 09, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(1)	Number of Channels	≥ 15Chs	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	≥ 2/3 of 20dB BW	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	≤ 0.4sec in 31.6sec period	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	NA	Pass	-
3.5	15.247(b)(1)	Peak Output Power	≤ 125 mW	Pass	-
3.6	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	≤ 20dBc	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 23.00 dB at 911.800 MHz
3.9	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 23.10 dB at 0.686 MHz
3.10	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

Remark: The FR571612A report reuses test data from the FR571614A report.

1 General Description

1.1 Applicant

Sony Mobile Communications Inc.
Nya Vattentornet, 22188 Lund, Sweden

1.2 Manufacturer

Sony Mobile Communications Inc.
1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan

1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, ANT+, NFC, and GPS

Product Specification subjective to this standard	
Antenna Type/Gain	Monopole Antenna type with gain -1.60 dBi

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
004402541707513	A	32.0.B.0.192	CB5A279FVJ	RF conducted measurement
004402541706515			CB5A279A2H8	Radiated Spurious Emission
004402541706721			CB5A279A2DY	Conducted Emission

Accessory List	
AC Adapter	Model No. : UCH20
	Type No. : AC-0061-US
	S/N : 5815W22500090 (for radiated spurious emission) 2115W15500021 (for conducted emission)
Earphone	Model No. : MDR-NC31E
	Type No. : AG-1110
USB Cable	Model No. : UCB11
	Type No. : AI-0120
	S/N : 1522A7390009100 (for radiated spurious emission) 1522A73000065C4 (for conducted emission)

Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	CO05-HY

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH11-HY

Note: The test site complies with ANSI C63.4 2009 requirement.

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- ANSI C63.10-2009 for Radiation
- ANSI C63.10-2013 for Conducted

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.

2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Preliminary tests were performed in different data rates and recorded the RF output power in the following table:

Channel	Frequency	Bluetooth RF Output Power (Peak)		
		Data Rate / Modulation		
		GFSK	π/4-DQPSK	8-DPSK
		1Mbps	2Mbps	3Mbps
Ch00	2402MHz	9.34 dBm	9.31 dBm	9.29 dBm
Ch39	2441MHz	9.47 dBm	9.37 dBm	9.42 dBm
Ch78	2480MHz	**9.52 dBm**	9.40 dBm	9.45 dBm

Remark:

1. All the test data for each data rate were verified, but only the worst case was reported.
2. The data rate was set in 1Mbps for all the test items due to the highest RF output power.

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels, and different data rates were conducted to determine the final configuration (Y plane as worst plane) from all possible combinations, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

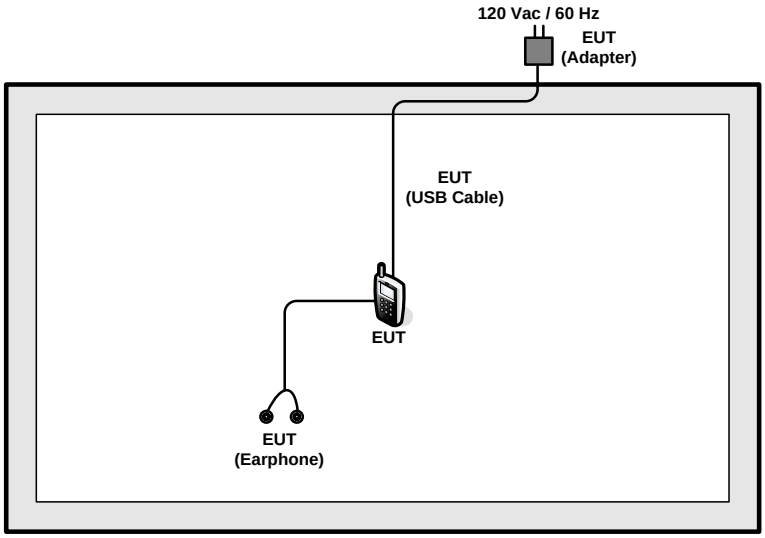
2.2 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

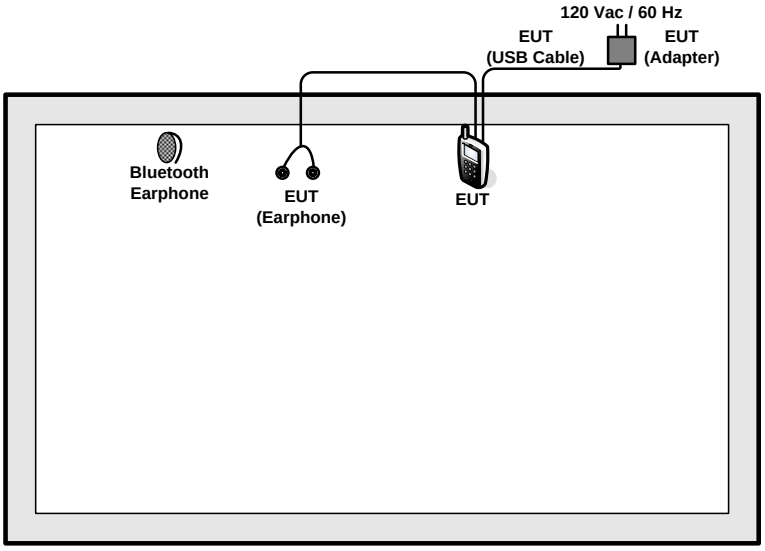
Summary table of Test Cases			
Test Item	**Data Rate / Modulation**		
	Bluetooth BR 1Mbps GFSK	**Bluetooth EDR 2Mbps π/4-DQPSK**	**Bluetooth EDR 3Mbps 8-DPSK**
Conducted Test Cases	Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz	Mode 4: CH00_2402 MHz Mode 5: CH39_2441 MHz Mode 6: CH78_2480 MHz	Mode 7: CH00_2402 MHz Mode 8: CH39_2441 MHz Mode 9: CH78_2480 MHz
Radiated Test Cases	**Bluetooth BR 1Mbps GFSK**	**Bluetooth EDR 2Mbps π/4-DQPSK**	**Bluetooth EDR 3Mbps 8-DPSK**
	Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz	Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz	Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz
AC Conducted Emission	Mode 1 ： Bluetooth Link + USB Cable (Charging from Adapter) + Earphone		
Remark: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and the conducted spurious emissions and conducted band edge measurement for each data rate are no worse than 1Mbps, and no other significantly frequencies found in conducted spurious emission.			

2.3 Connection Diagram of Test System

<Bluetooth Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	Unshielded, 0.75m	N/A
2.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth test items, an engineering test program was provided and enabled to make EUT continuous transmitting and receiving signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

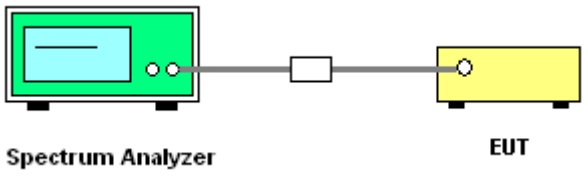
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW = 300kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup

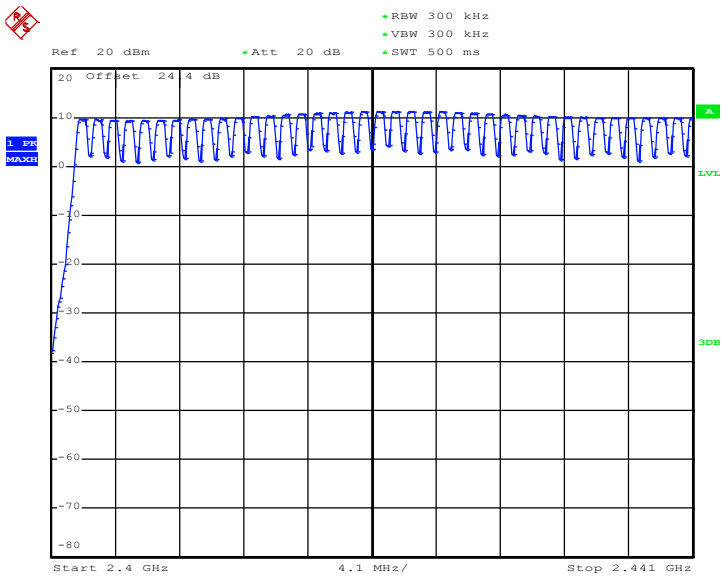


3.1.5 Test Result of Number of Hopping Frequency

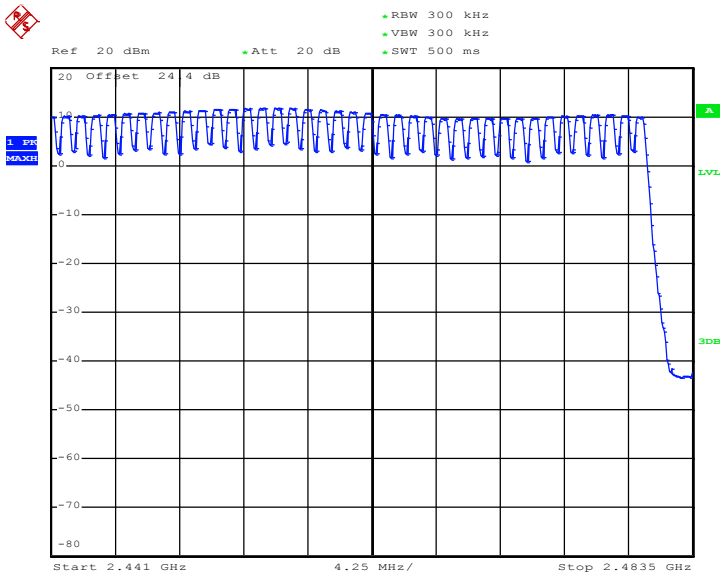
Test Mode :	1Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	20	> 15	Pass

Number of Hopping Channel Plot on Channel 00 - 78



Date: 4.AUG.2015 09:33:05



Date: 4.AUG.2015 09:38:30

3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

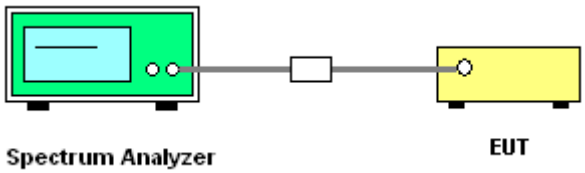
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels;
   RBW = 300kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.2.4 Test Setup

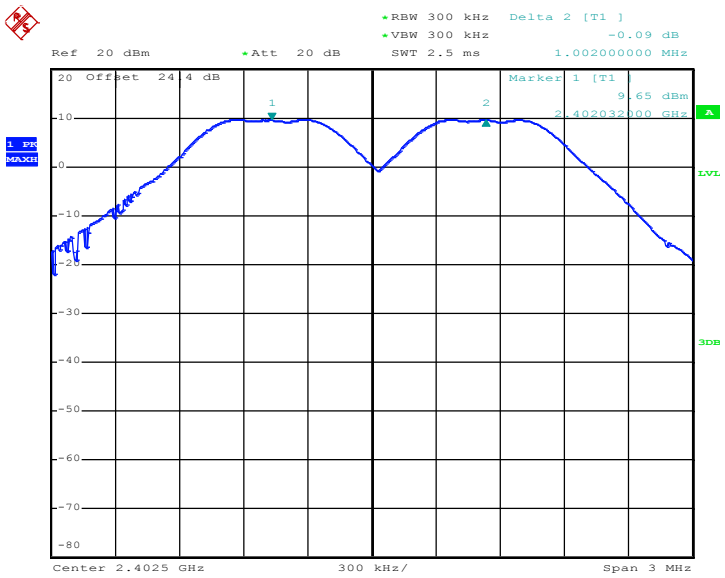


3.2.5 Test Result of Hopping Channel Separation

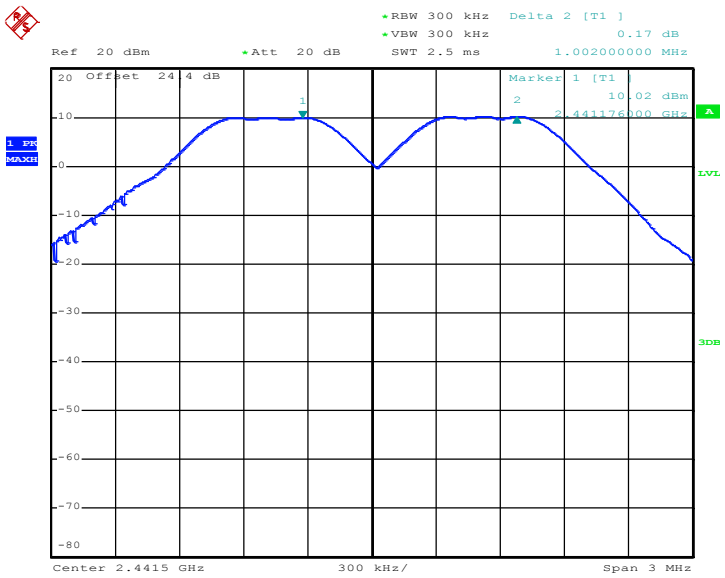
Test Mode :	1Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

Channel	Frequency (MHz)	Frequency Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Pass/Fail
00	2402	1.002	0.5067	Pass
39	2441	1.002	0.5067	Pass
78	2480	1.008	0.5093	Pass

Channel Separation Plot on Channel 00 - 01

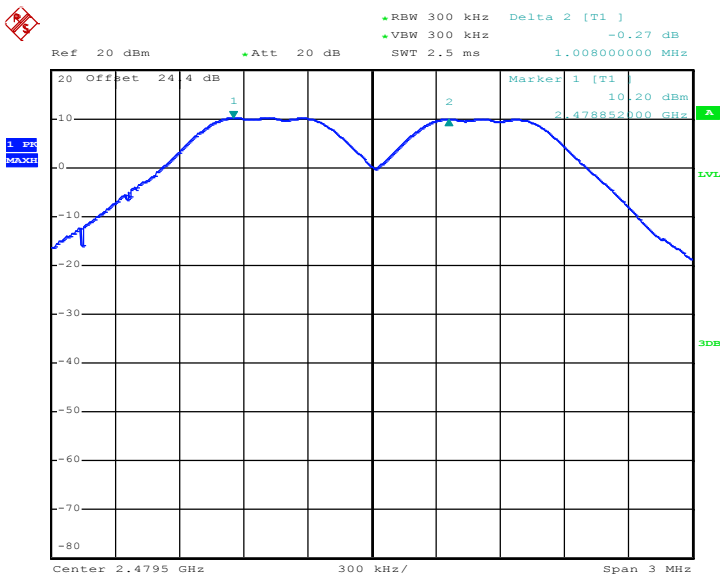


Channel Separation Plot on Channel 39 - 40



Date: 4.AUG.2015 08:33:25

Channel Separation Plot on Channel 77 - 78

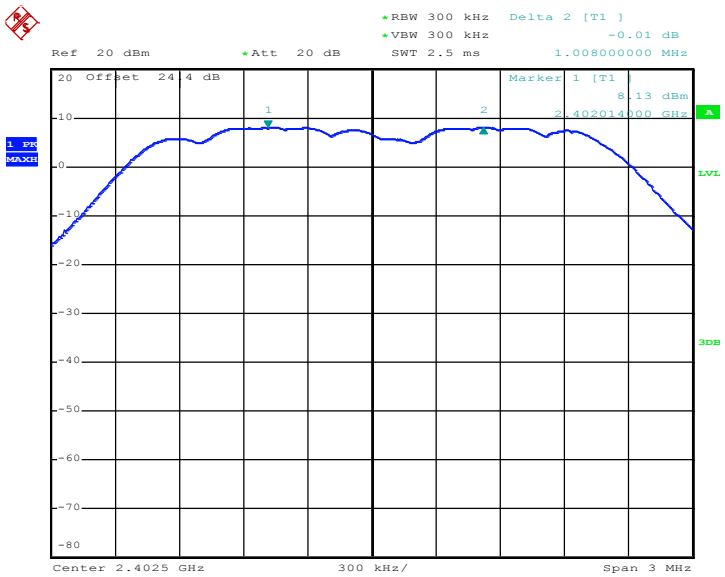


Date: 4.AUG.2015 08:35:50

Test Mode :	2Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

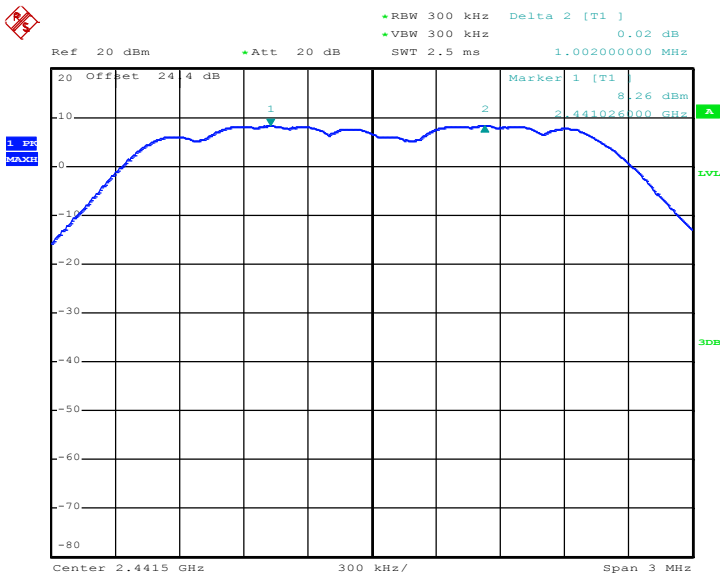
Channel	Frequency (MHz)	Frequency Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Pass/Fail
00	2402	1.008	0.8200	Pass
39	2441	1.002	0.7840	Pass
78	2480	1.002	0.8200	Pass

Channel Separation Plot on Channel 00 - 01



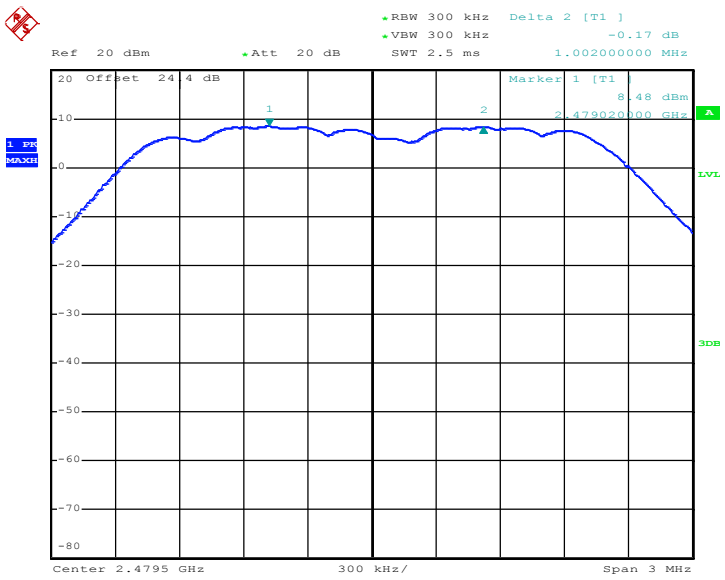
Date: 4.AUG.2015 11:36:18

Channel Separation Plot on Channel 39 - 40



Date: 4.AUG.2015 11:38:43

Channel Separation Plot on Channel 77 - 78

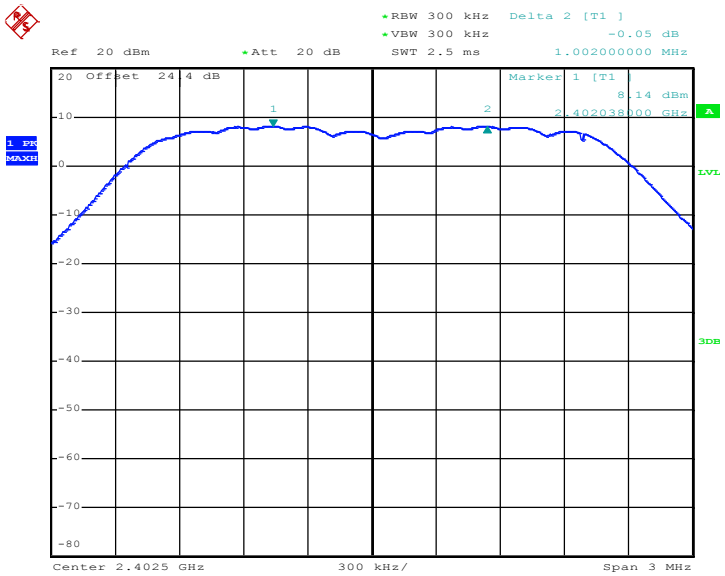


Date: 4.AUG.2015 11:40:59

Test Mode :	3Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

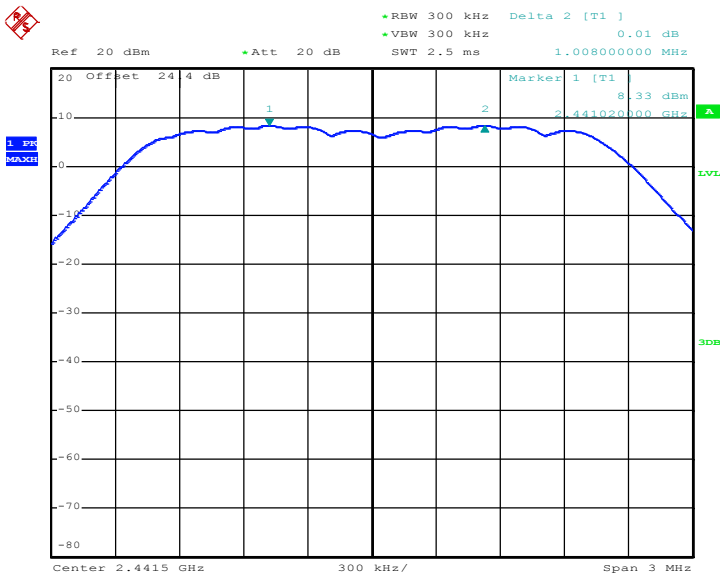
Channel	Frequency (MHz)	Frequency Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Pass/Fail
00	2402	1.002	0.7480	Pass
39	2441	1.008	0.7520	Pass
78	2480	1.002	0.7480	Pass

Channel Separation Plot on Channel 00 - 01



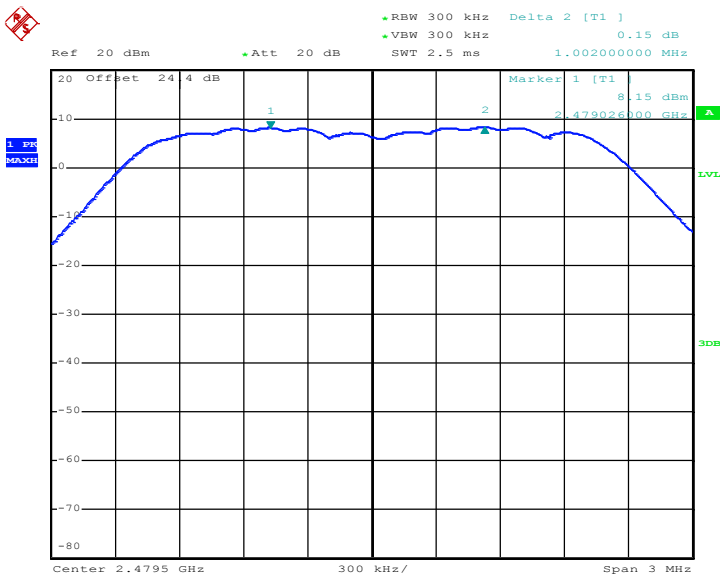
Date: 4.AUG.2015 11:44:36

Channel Separation Plot on Channel 39 - 40



Date: 4.AUG.2015 11:48:39

Channel Separation Plot on Channel 77 - 78



Date: 4.AUG.2015 11:52:30

3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

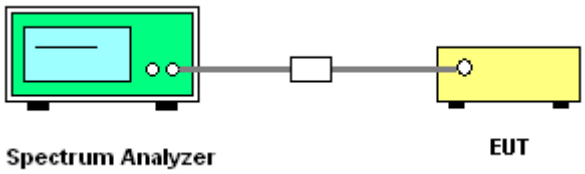
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Dwell Time

Test Mode :	DH5	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

Mode	Hopping Channel Number	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Normal	79	106.67	3.78	0.40	0.4	Pass
AFH	20	53.34	3.78	0.20	0.4	Pass

Remark:

1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s),

Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.

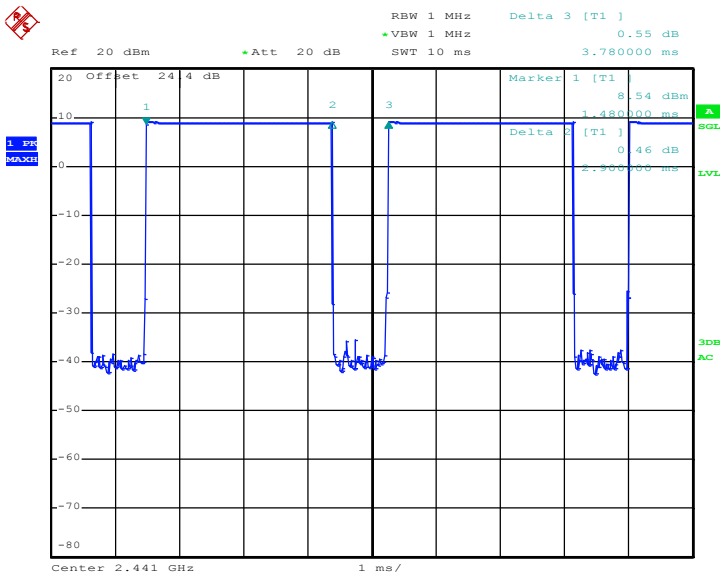
2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels.

With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s),

Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.

3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Package Transfer Time Plot



Date: 29.JUL.2015 00:59:35

3.4 20dB Bandwidth Measurement

3.4.1 Limit of 20dB andwidth

Reporting only

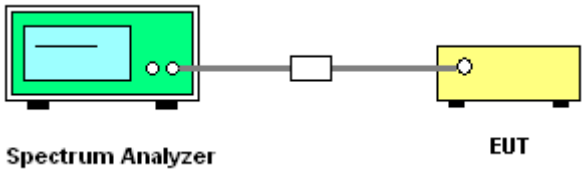
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
   Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;
   RBW ≥ 1% of the 20 dB bandwidth; VBW ≥ RBW; Sweep = auto; Detector function = peak;
   Trace = max hold.
5. Measure and record the results in the test report.

3.4.4 Test Setup

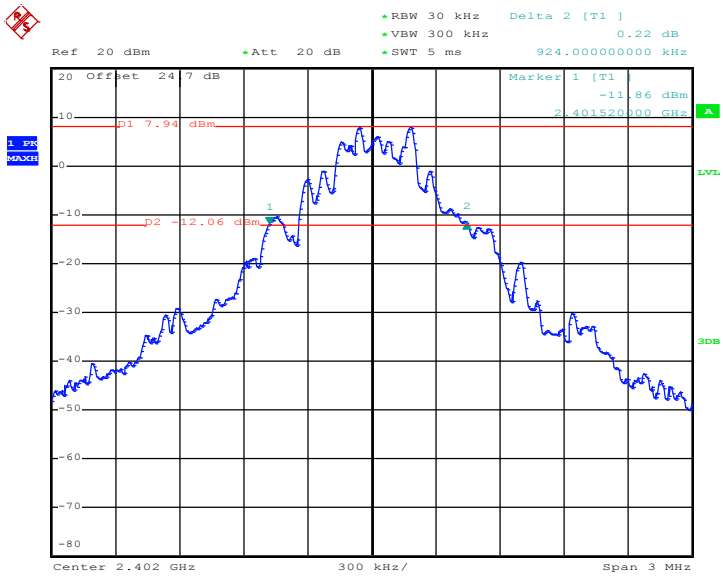


3.4.5 Test Result of 20dB Bandwidth

Test Mode :	1Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

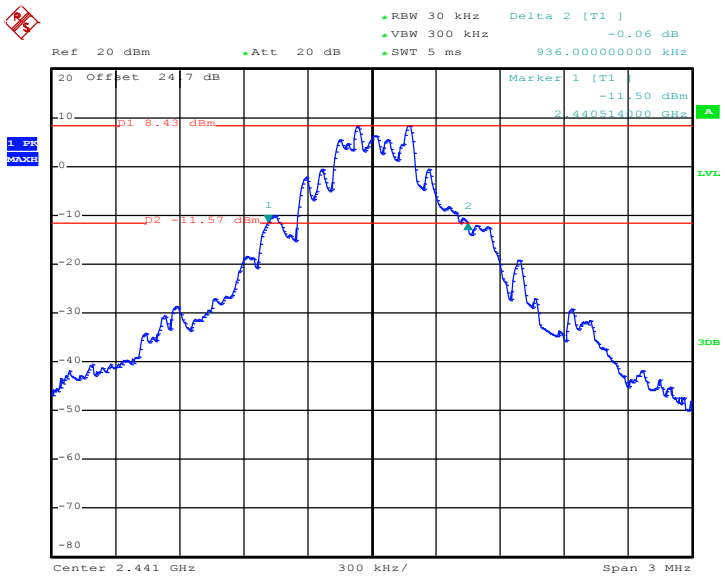
Channel	Frequency (MHz)	20dB Bandwidth (MHz)
00	2402	0.924
39	2441	0.936
78	2480	0.930

20 dB Bandwidth Plot on Channel 00



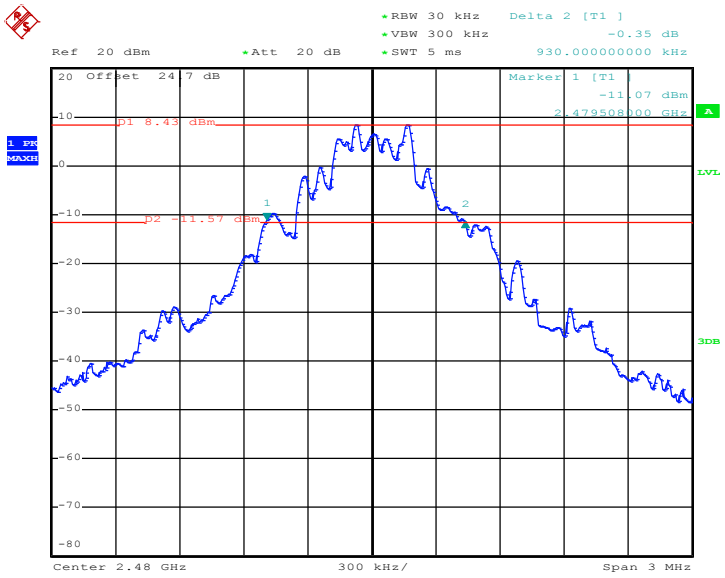
Date: 28.AUG.2015 19:42:01

20 dB Bandwidth Plot on Channel 39



Date: 28.AUG.2015 19:43:35

20 dB Bandwidth Plot on Channel 78

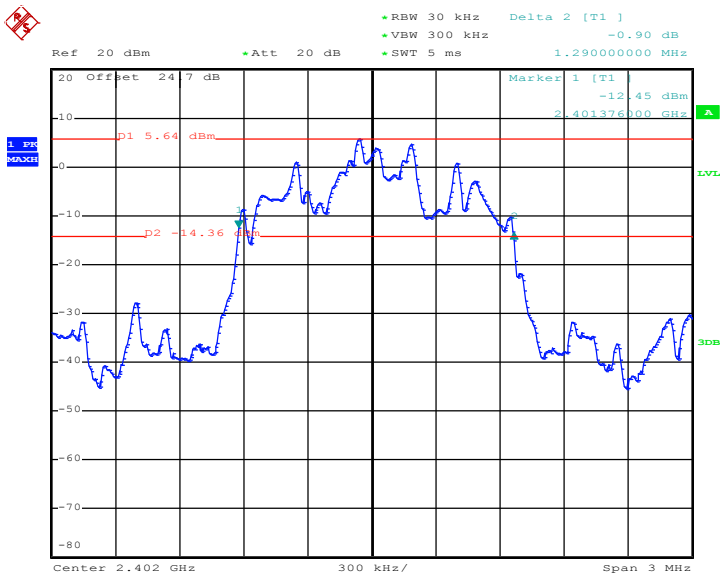


Date: 28.AUG.2015 19:45:40

Test Mode :	2Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

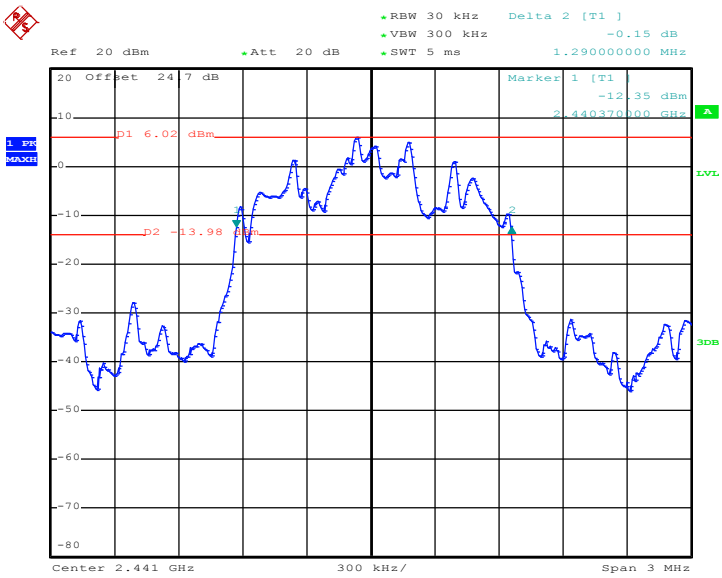
Channel	Frequency (MHz)	20dB Bandwidth (MHz)
00	2402	1.290
39	2441	1.290
78	2480	1.290

20 dB Bandwidth Plot on Channel 00



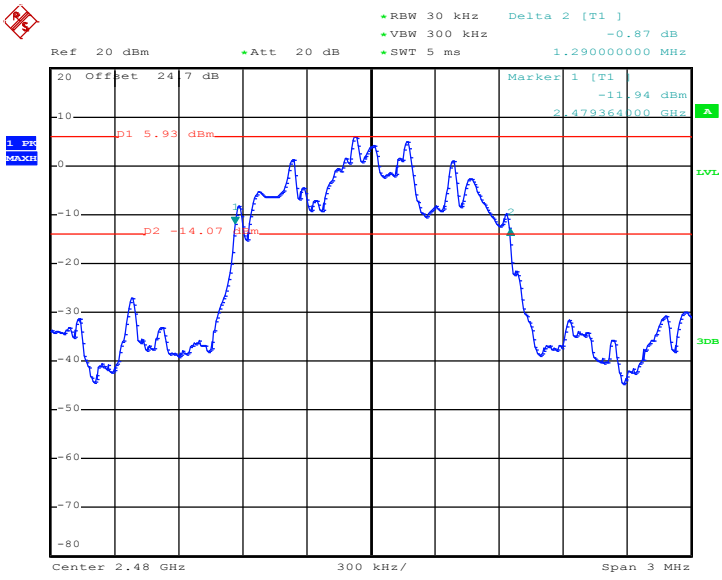
Date: 28.AUG.2015 19:47:26

20 dB Bandwidth Plot on Channel 39



Date: 28.AUG.2015 19:48:58

20 dB Bandwidth Plot on Channel 78

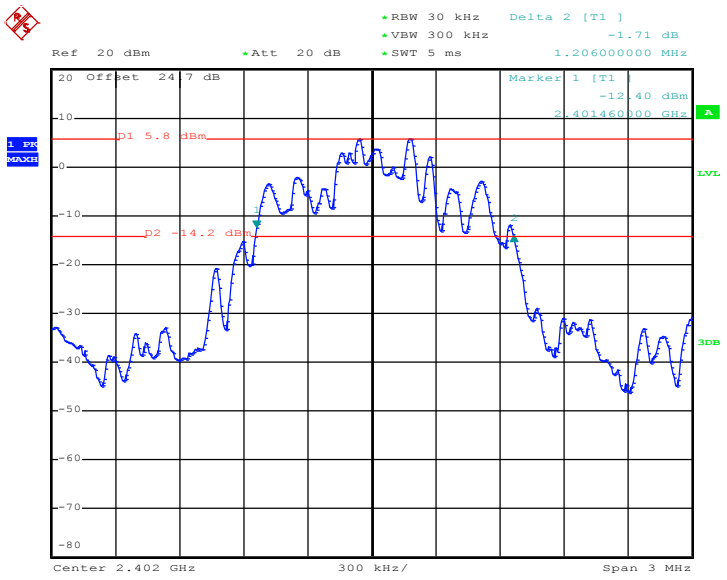


Date: 28.AUG.2015 19:50:19

Test Mode :	3Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

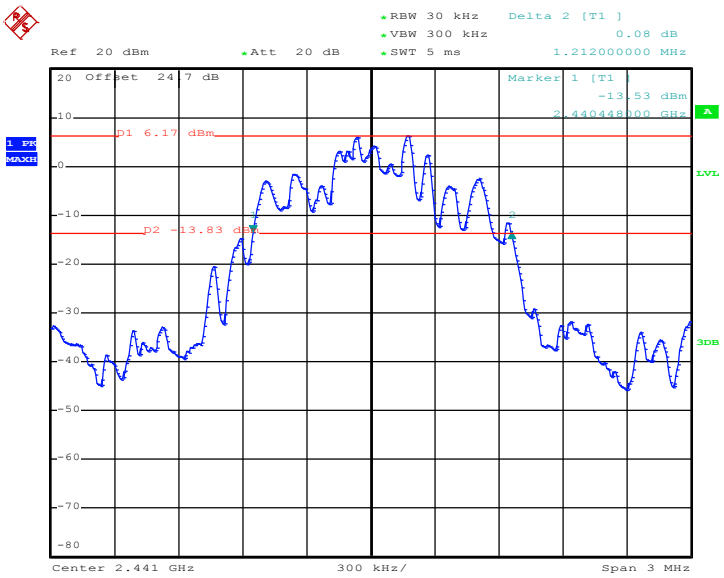
Channel	Frequency (MHz)	20dB Bandwidth (MHz)
00	2402	1.206
39	2441	1.212
78	2480	1.206

20 dB Bandwidth Plot on Channel 00



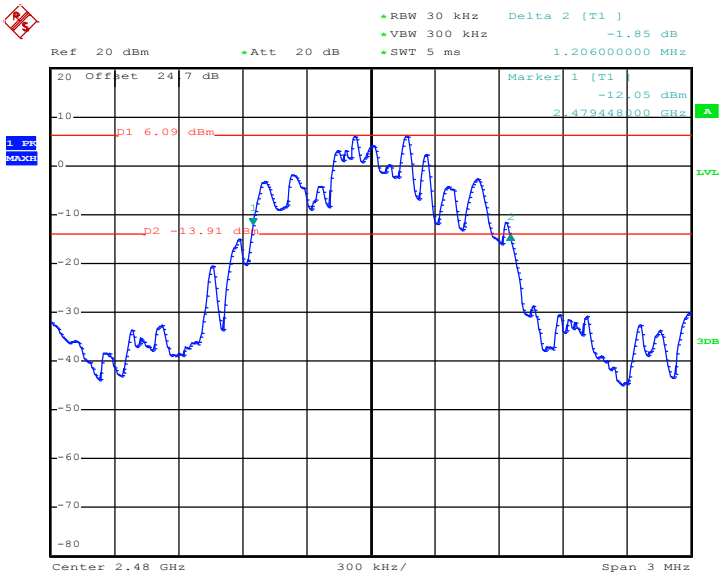
Date: 28.AUG.2015 19:51:49

20 dB Bandwidth Plot on Channel 39



Date: 28.AUG.2015 19:53:30

20 dB Bandwidth Plot on Channel 78



Date: 28.AUG.2015 19:54:45

3.5 Peak Output Power Measurement

3.5.1 Limit of Peak Output Power

Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. The power limit for 1Mbps is 1watt, and for 2Mbps, 3Mbps and AFH are 0.125 watts.

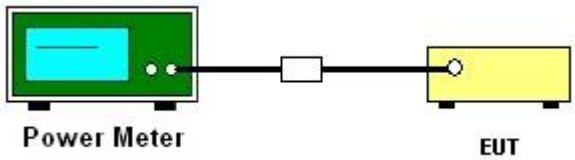
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

3.5.4 Test Setup



3.5.5 Test Result of Peak Output Power

Test Mode :	1Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

Channel	Frequency (MHz)	RF Power (dBm)		
		GFSK	Max. Limits (dBm)	Pass/Fail
		1 Mbps		
00	2402	9.34	20.97	Pass
39	2441	9.47	20.97	Pass
78	2480	9.52	20.97	Pass

Note: For AFH mode using 20 hopping channels, the maximum output power limit is 20.97dBm.

Test Mode :	2Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

Channel	Frequency (MHz)	RF Power (dBm)		
		π /4-DQPSK	Max. Limits (dBm)	Pass/Fail
		2 Mbps		
00	2402	9.31	20.97	Pass
39	2441	9.37	20.97	Pass
78	2480	9.40	20.97	Pass

Test Mode :	3Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

Channel	Frequency (MHz)	RF Power (dBm)		
		8-DPSK	Max. Limits (dBm)	Pass/Fail
		3 Mbps		
00	2402	9.29	20.97	Pass
39	2441	9.42	20.97	Pass
78	2480	9.45	20.97	Pass

3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

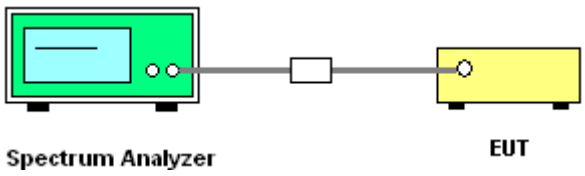
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.6.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100kHz, VBW = 300kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2. and 3.
5. Measure and record the results in the test report.

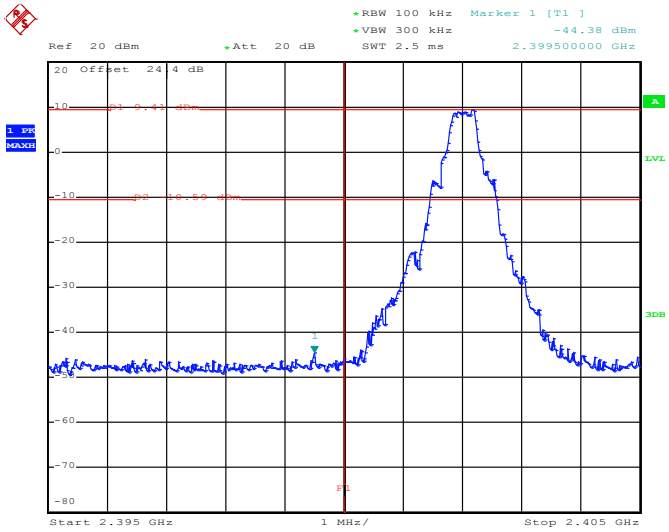
3.6.4 Test Setup



3.6.5 Test Result of Conducted Band Edges

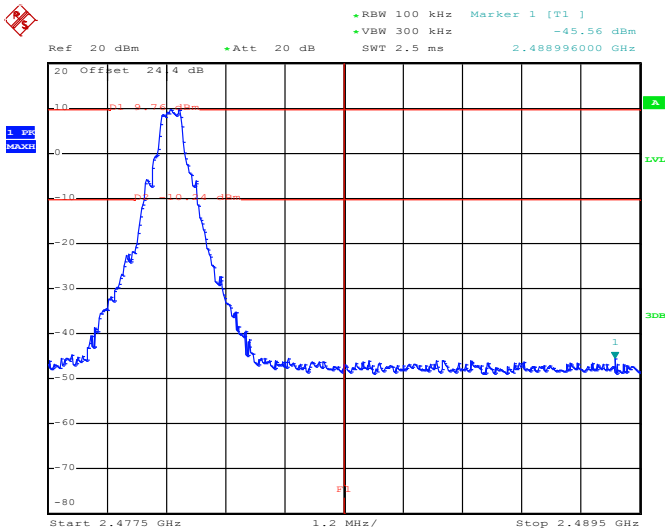
Test Mode :	1Mbps	**Temperature :**	24~26℃
Test Channel :	00 and 78	**Relative Humidity :**	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

Low Band Edge Plot on Channel 00



Date: 4.AUG.2015 10:29:42

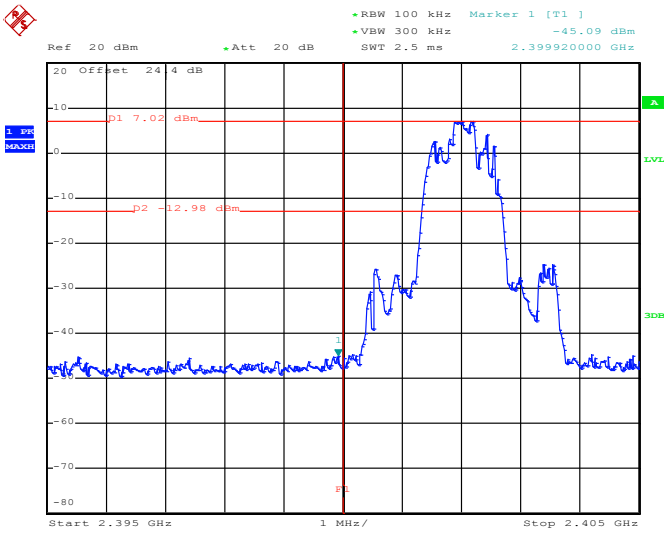
High Band Edge Plot on Channel 78



Date: 4.AUG.2015 10:36:25

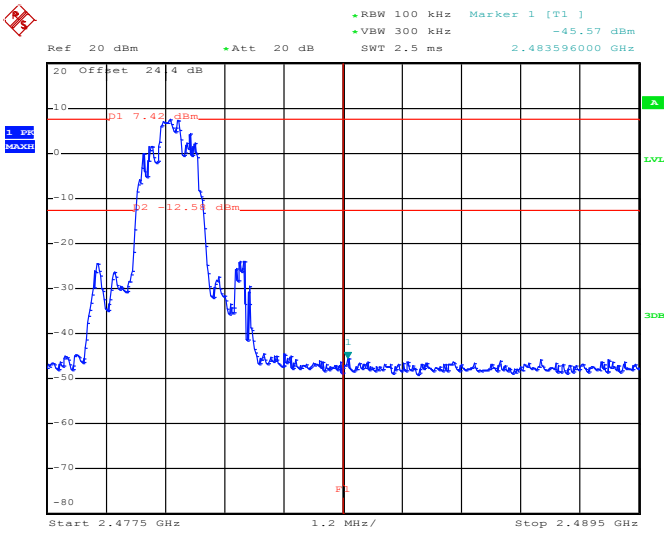
Test Mode :	2Mbps	**Temperature :**	24~26℃
Test Channel :	00 and 78	**Relative Humidity :**	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

Low Band Edge Plot on Channel 00



Date: 4.AUG.2015 10:39:54

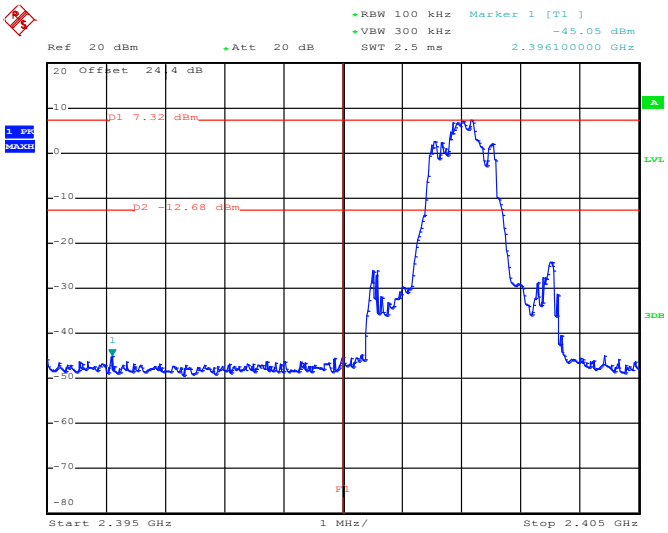
High Band Edge Plot on Channel 78



Date: 4.AUG.2015 11:05:34

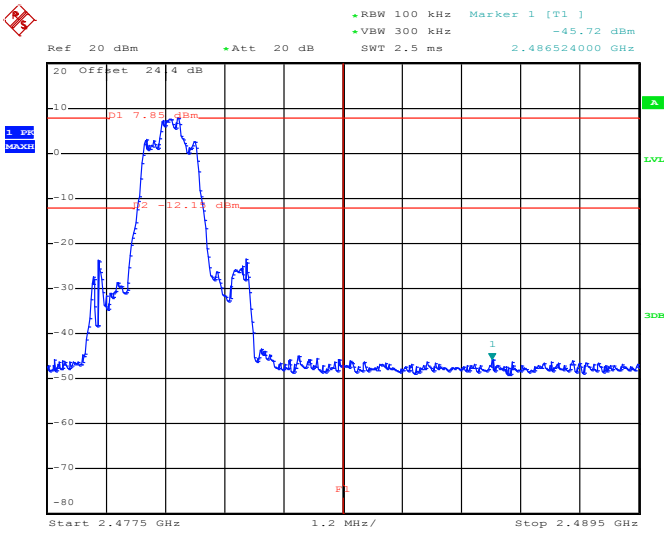
Test Mode :	3Mbps	**Temperature :**	24~26℃
Test Channel :	00 and 78	**Relative Humidity :**	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

Low Band Edge Plot on Channel 00



Date: 4.AUG.2015 11:10:30

High Band Edge Plot on Channel 78

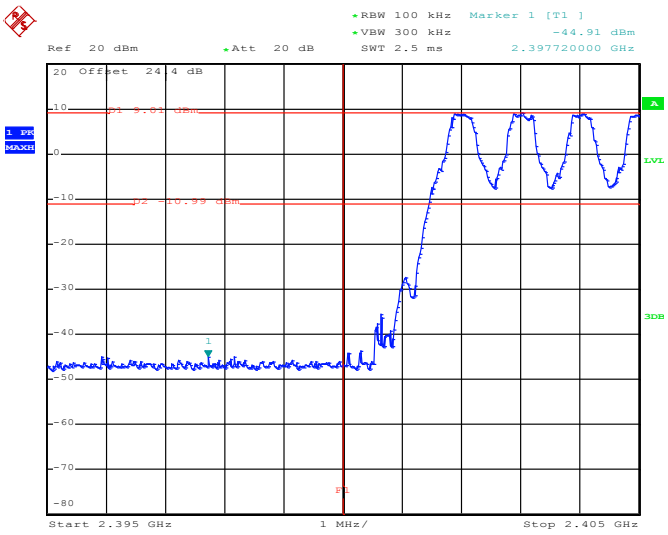


Date: 4.AUG.2015 11:21:22

3.6.6 Test Result of Conducted Hopping Mode Band Edges

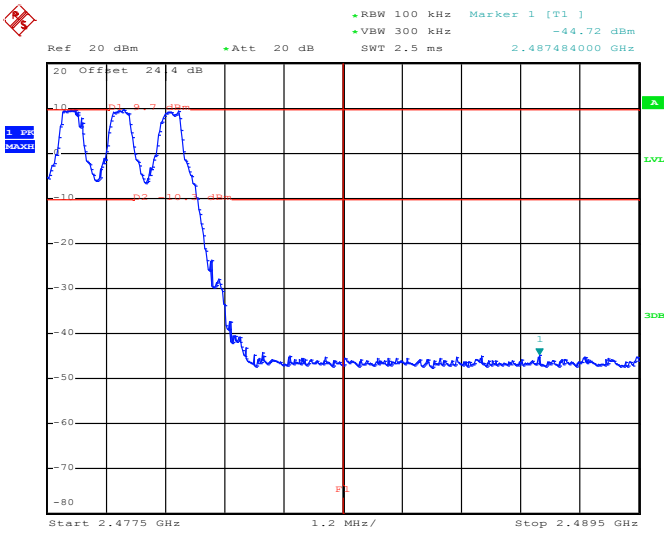
Test Mode :	1Mbps	**Temperature :**	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	**Relative Humidity :**	48~51%

1Mbps Hopping Mode Low Band Edge Plot



Date: 4.AUG.2015 10:10:14

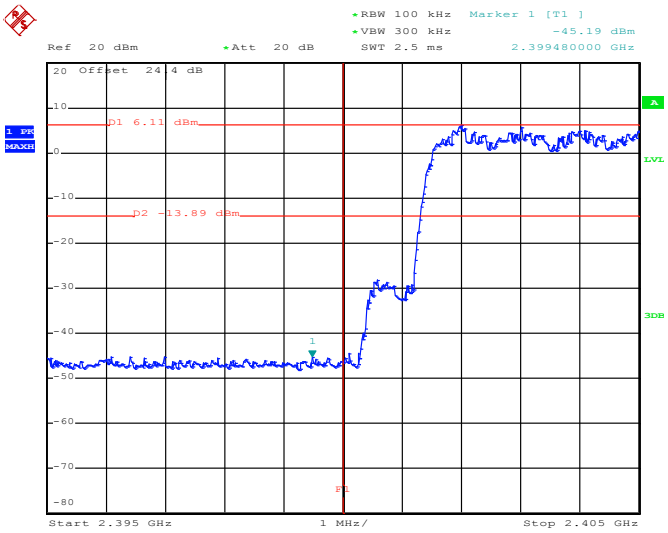
1Mbps Hopping Mode High Band Edge Plot



Date: 4.AUG.2015 09:49:07

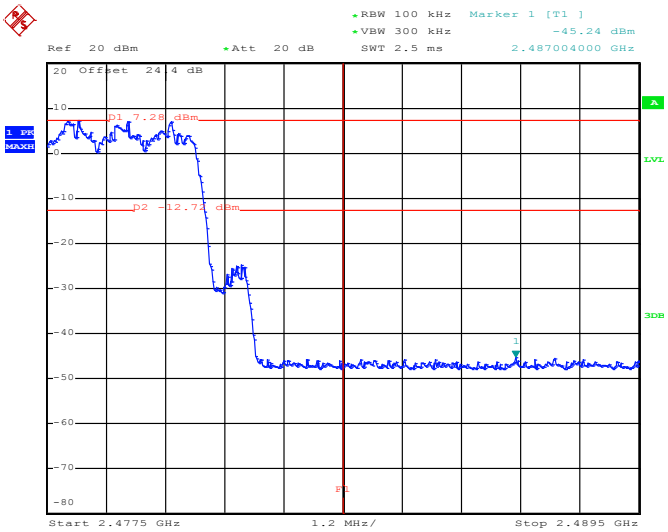
Test Mode :	2Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

2Mbps Hopping Mode Low Band Edge Plot



Date: 4.AUG.2015 09:58:36

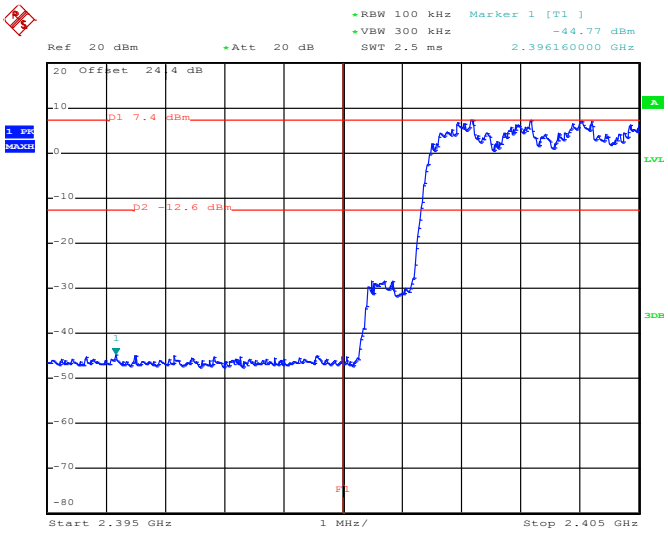
2Mbps Hopping Mode High Band Edge Plot



Date: 4.AUG.2015 11:05:00

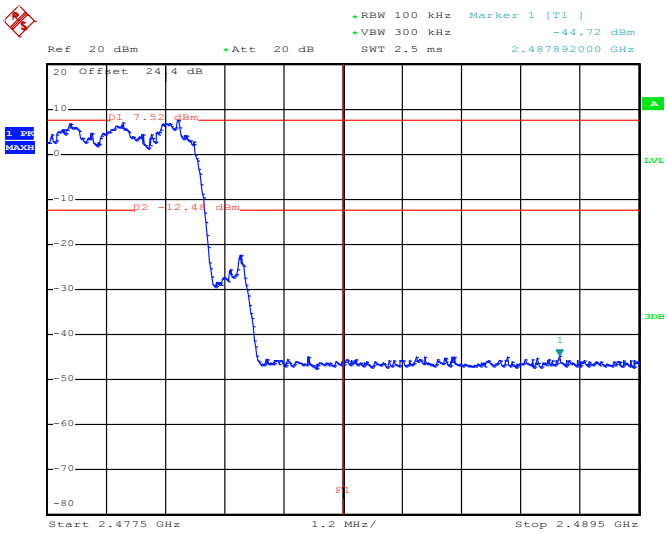
Test Mode :	3Mbps	Temperature :	24~26℃
Test Engineer :	Luffy Lin and Tommy Lee	Relative Humidity :	48~51%

3Mbps Hopping Mode Low Band Edge Plot



Date: 4.AUG.2015 10:03:42

3Mbps Hopping Mode High Band Edge Plot



Date: 4.AUG.2015 10:07:15

3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedure

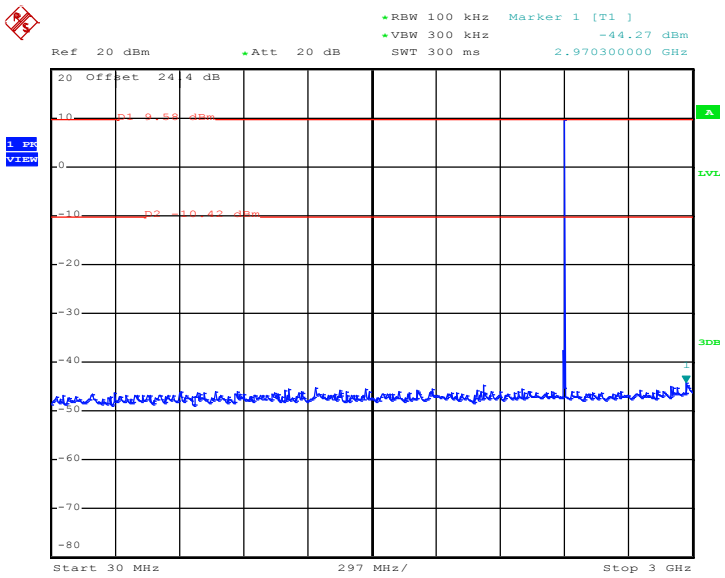
1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7.4 Test Setup

3.7.5 Test Result of Conducted Spurious Emission

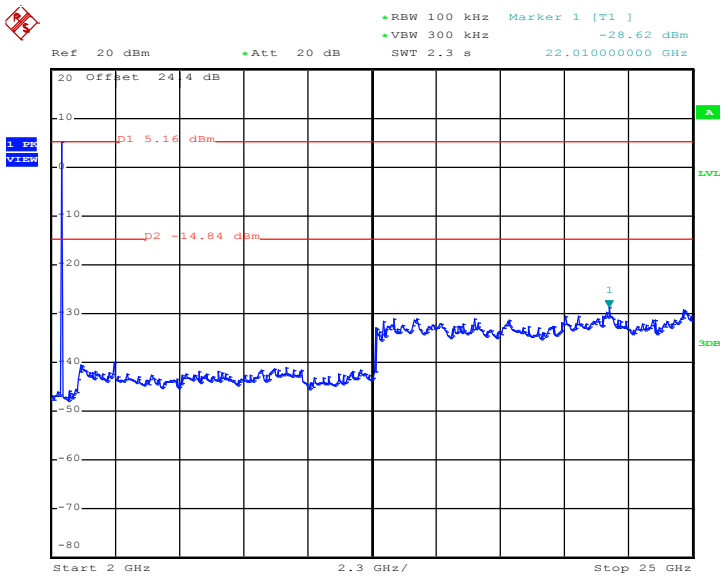
Test Mode :	1Mbps	**Temperature :**	24~26℃
Test Channel :	00	**Relative Humidity :**	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

1Mbps CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 10:31:43

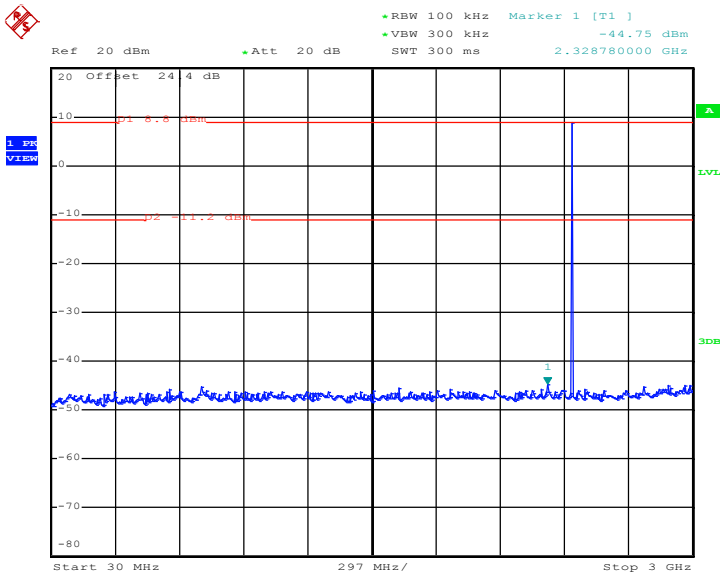
1Mbps CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 10:32:04

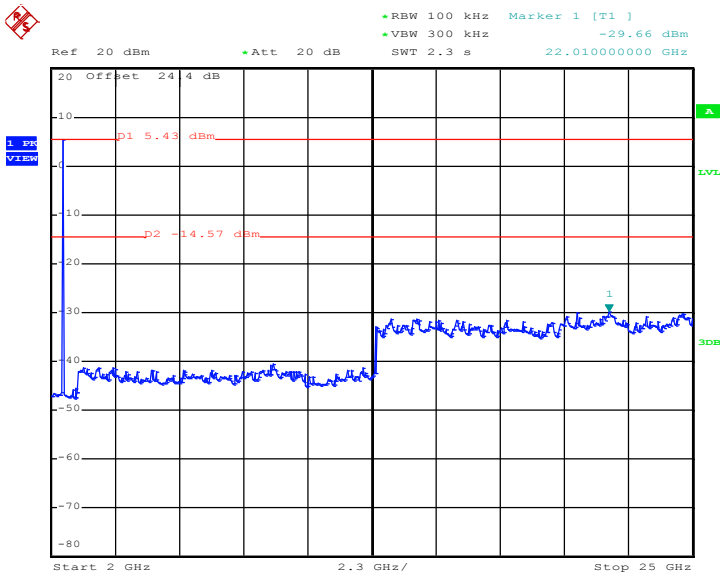
Test Mode :	1Mbps	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

1Mbps CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 10:33:48

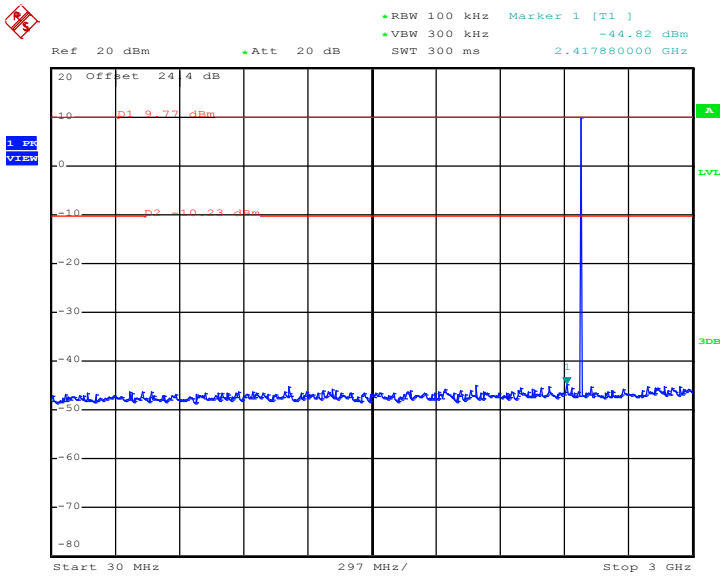
1Mbps CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 10:34:10

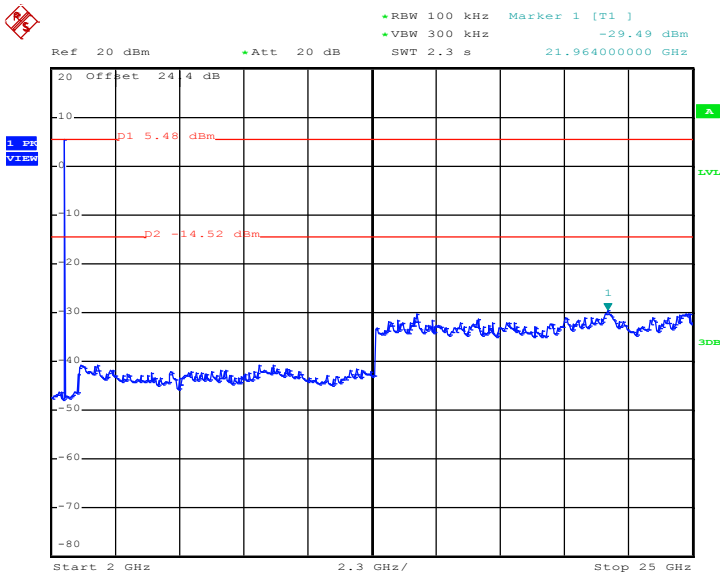
Test Mode :	1Mbps	Temperature :	24~26℃
Test Channel :	78	Relative Humidity :	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

1Mbps CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 10:38:12

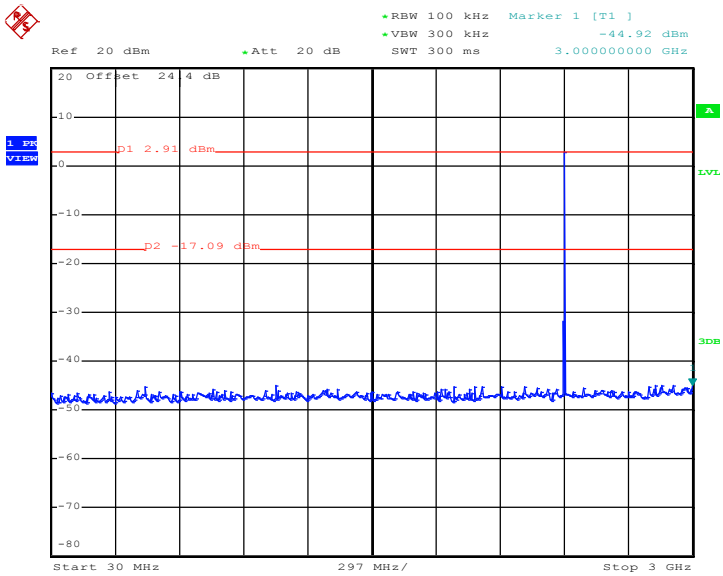
1Mbps CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 10:38:34

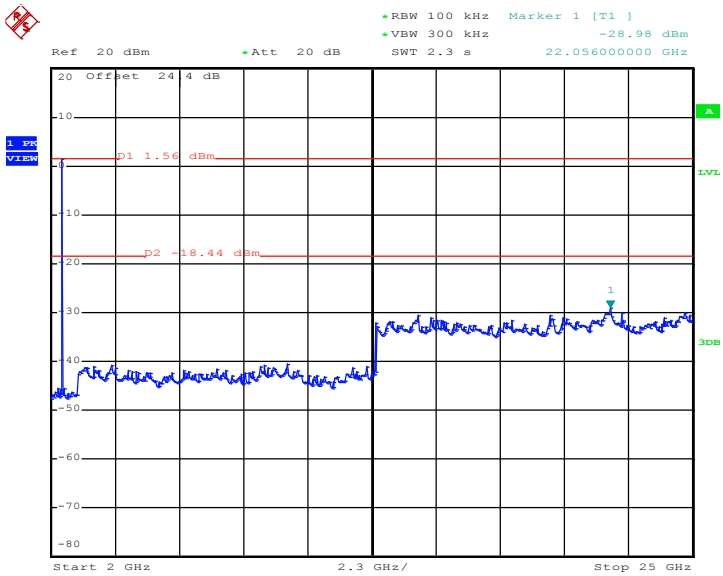
Test Mode :	2Mbps	Temperature :	24~26℃
Test Channel :	00	Relative Humidity :	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

2Mbps CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 10:42:11

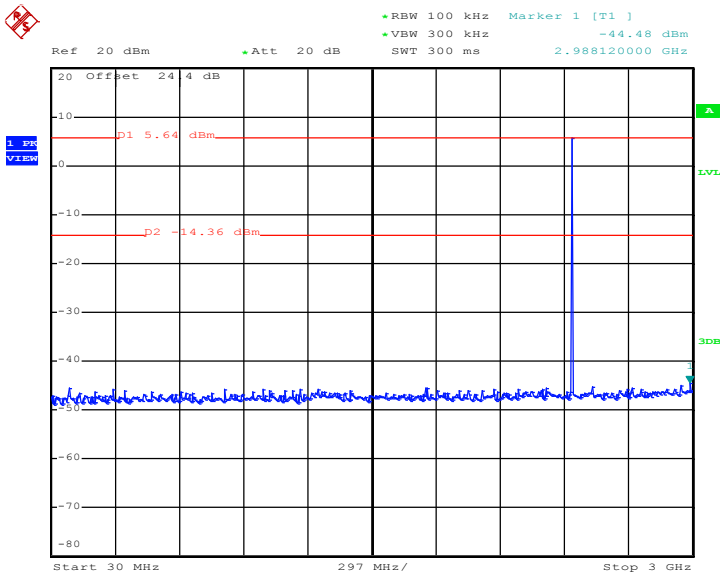
2Mbps CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 10:42:32

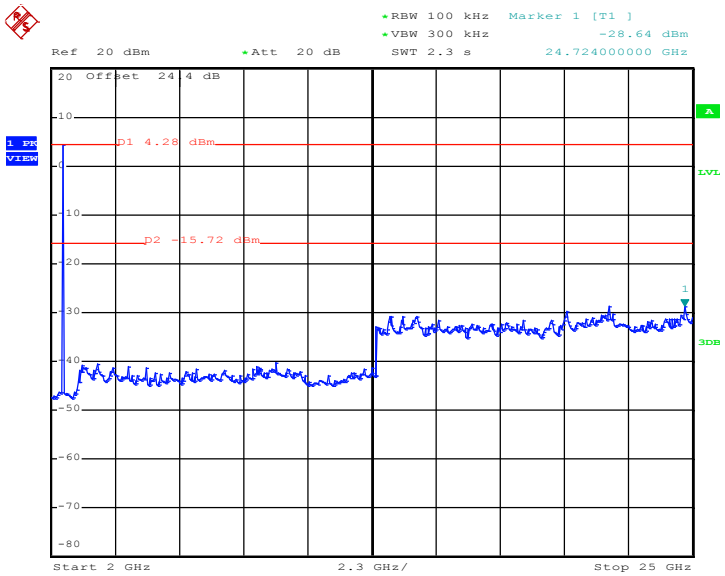
Test Mode :	2Mbps	**Temperature :**	24~26℃
Test Channel :	39	**Relative Humidity :**	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

2Mbps CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 10:46:05

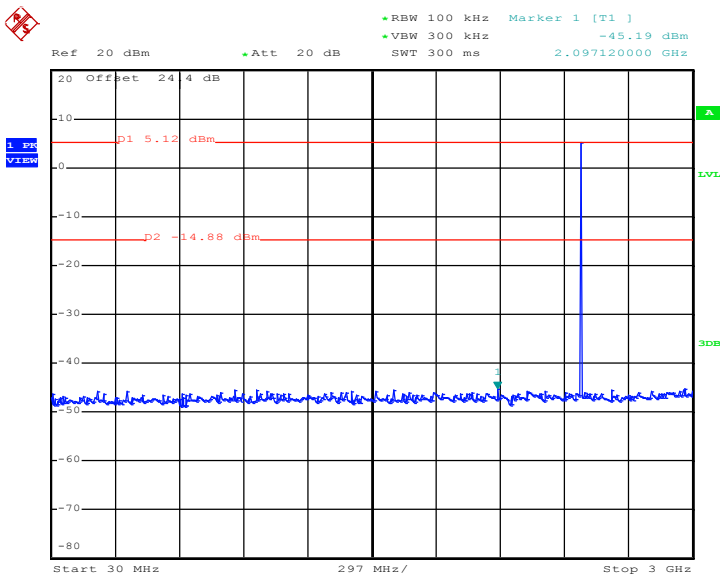
2Mbps CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 10:46:27

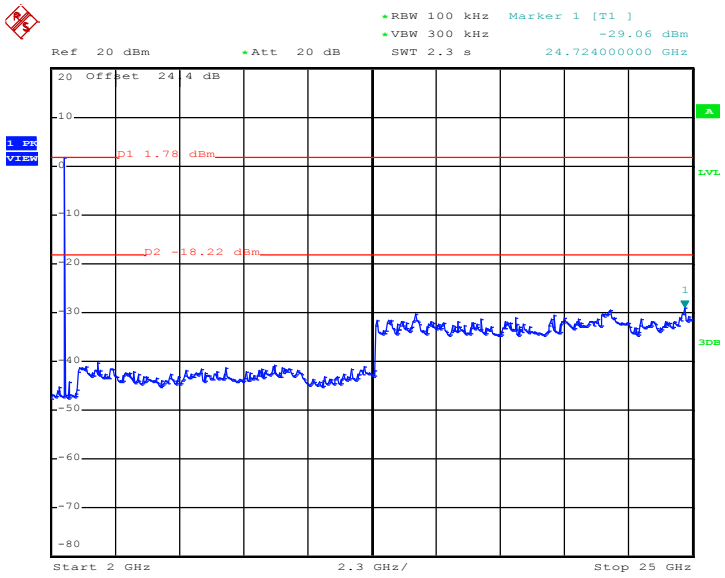
Test Mode :	2Mbps	Temperature :	24~26℃
Test Channel :	78	Relative Humidity :	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

2Mbps CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 11:07:54

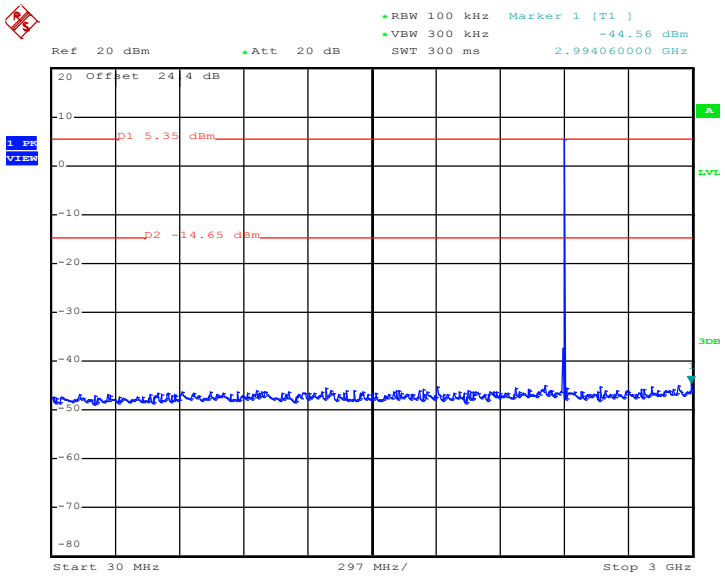
2Mbps CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 11:08:16

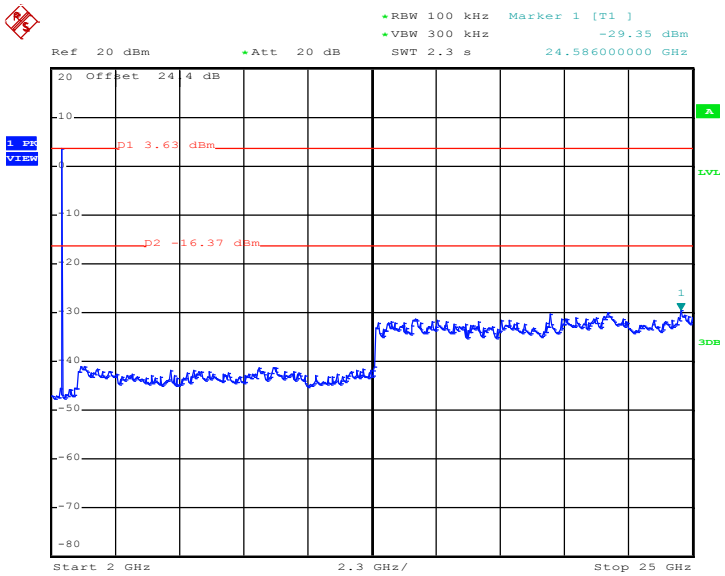
Test Mode :	3Mbps	**Temperature :**	24~26℃
Test Channel :	00	**Relative Humidity :**	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

3Mbps CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 11:11:37

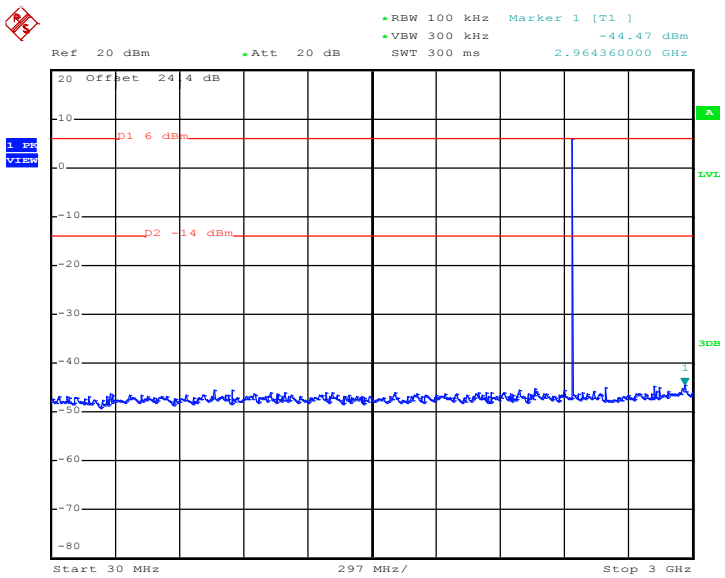
3Mbps CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 11:11:59

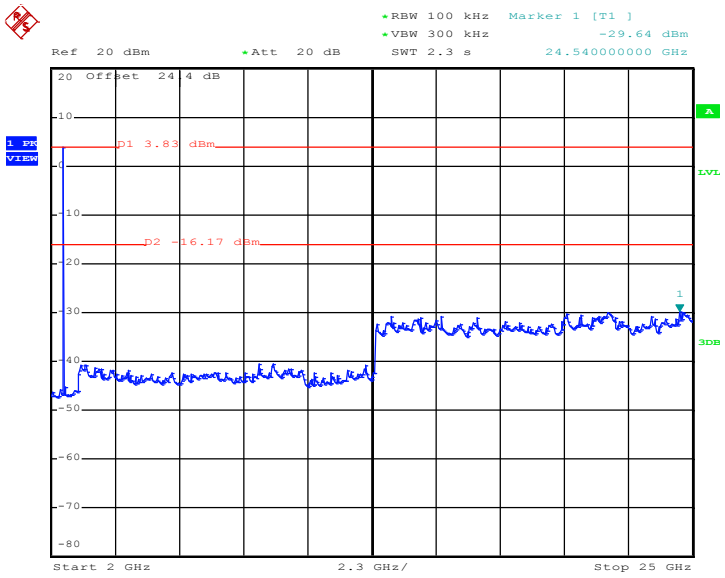
Test Mode :	3Mbps	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

3Mbps CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 11:13:49

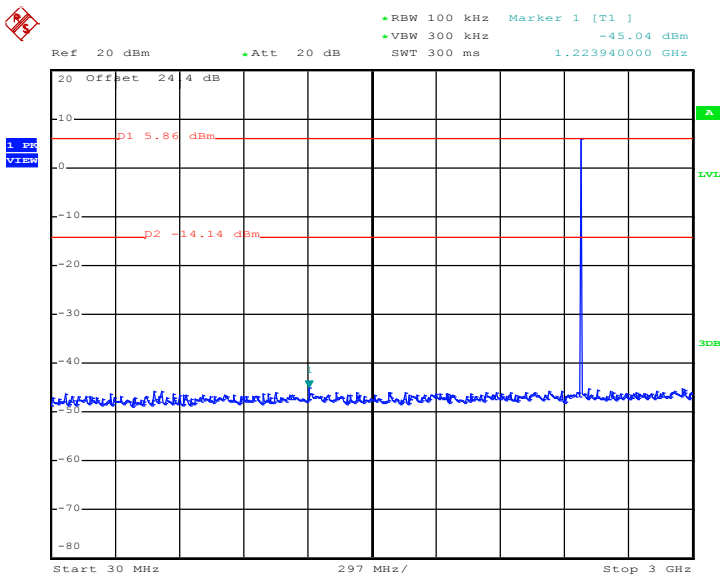
3Mbps CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 11:14:11

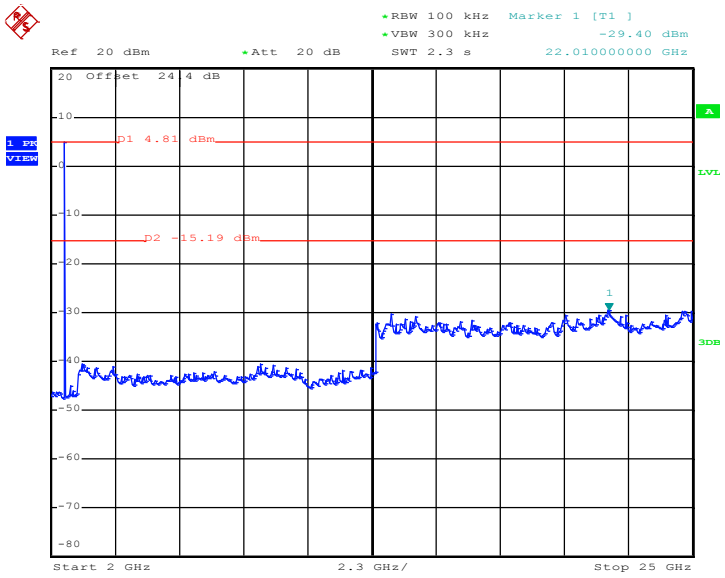
Test Mode :	3Mbps	**Temperature :**	24~26℃
Test Channel :	78	**Relative Humidity :**	48~51%
		Test Engineer :	Luffy Lin and Tommy Lee

3Mbps CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 4.AUG.2015 11:22:28

3Mbps CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 4.AUG.2015 11:22:50

3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

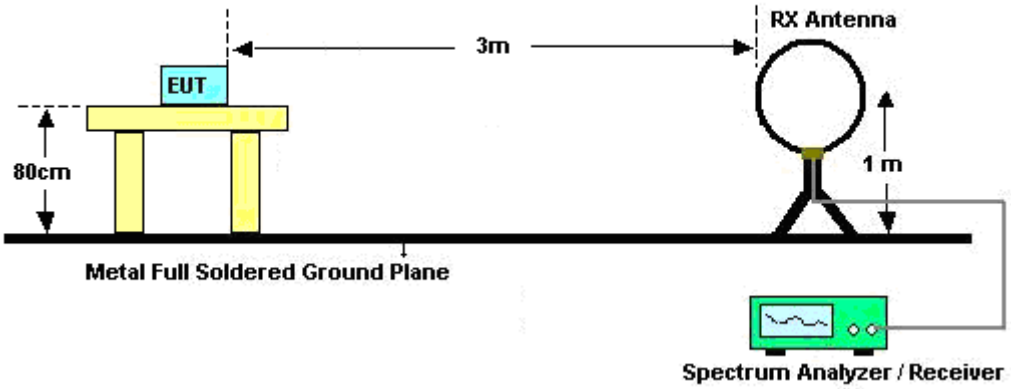
3.8.3 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
   (3) For average measurement: use duty cycle correction factor method per 15.35(c).
   Duty cycle = On time/100 milliseconds
   On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$
   Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
   Average Emission Level = Peak Emission Level + 20*log(Duty cycle)
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

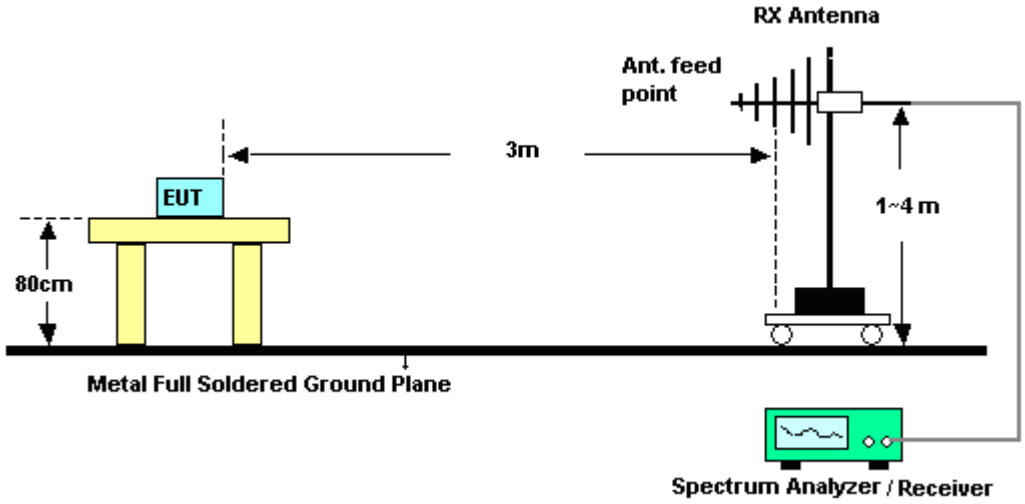
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (24.79dB for 1Mbps; 24.76dB for 2Mbps and 3Mbps) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

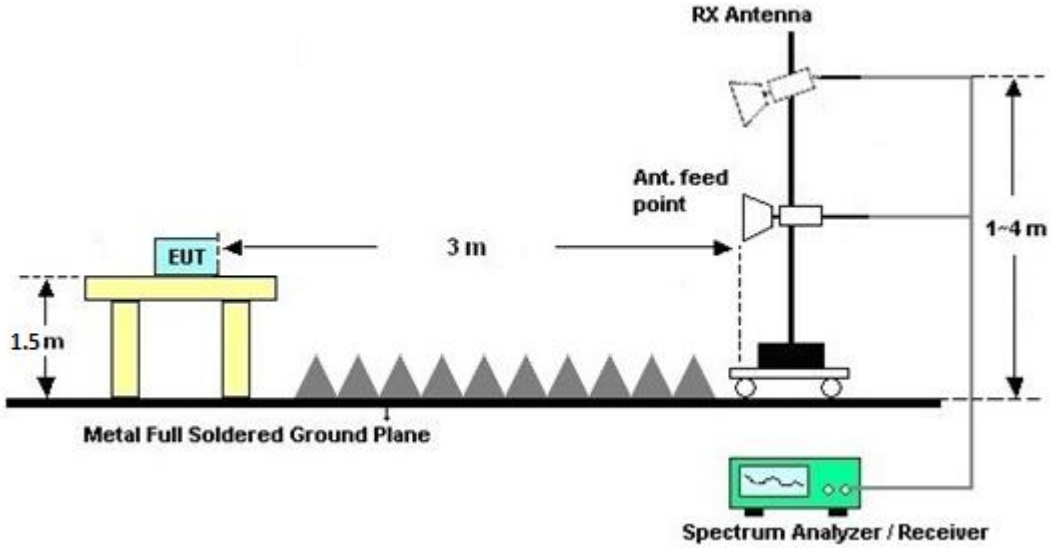
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

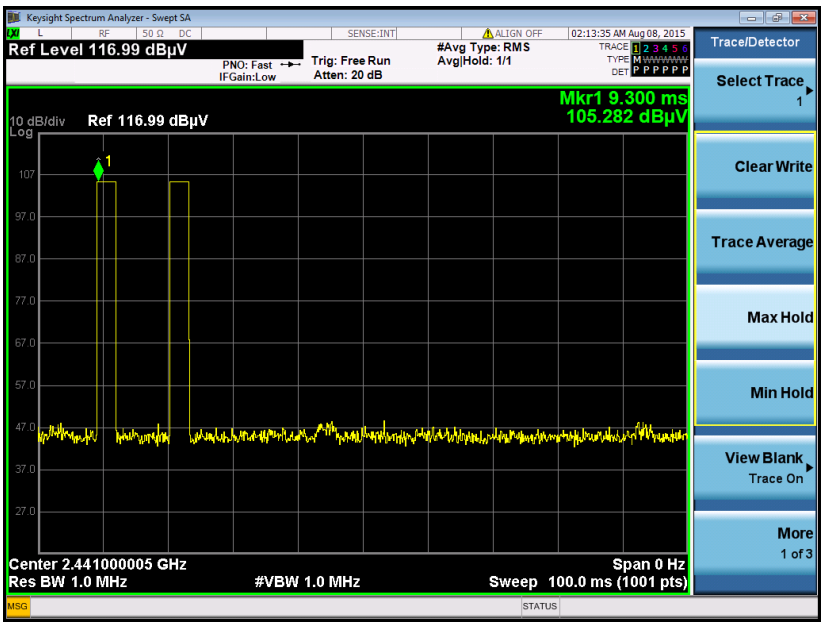


3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

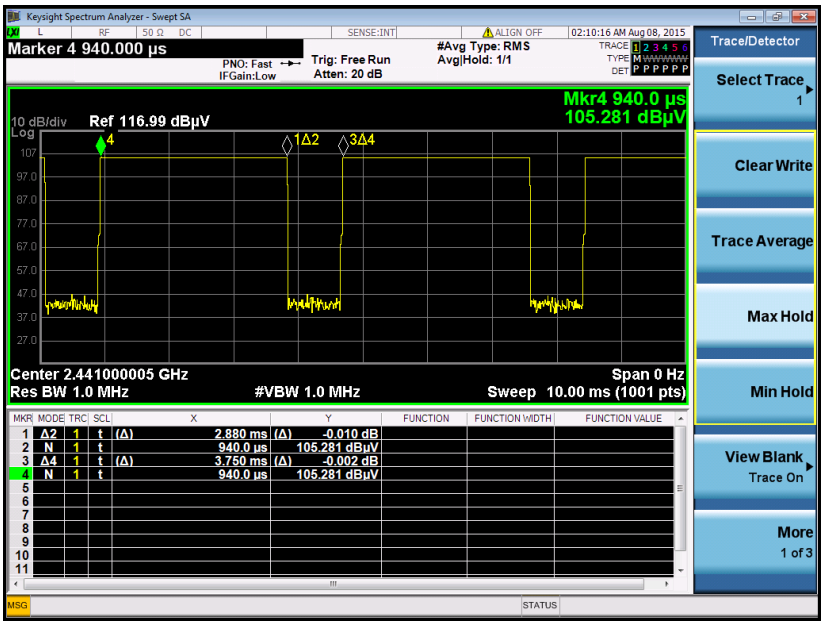
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.8.6 Duty cycle correction factor for average measurement

DH5 on time (One Pulse) Plot on Channel 39



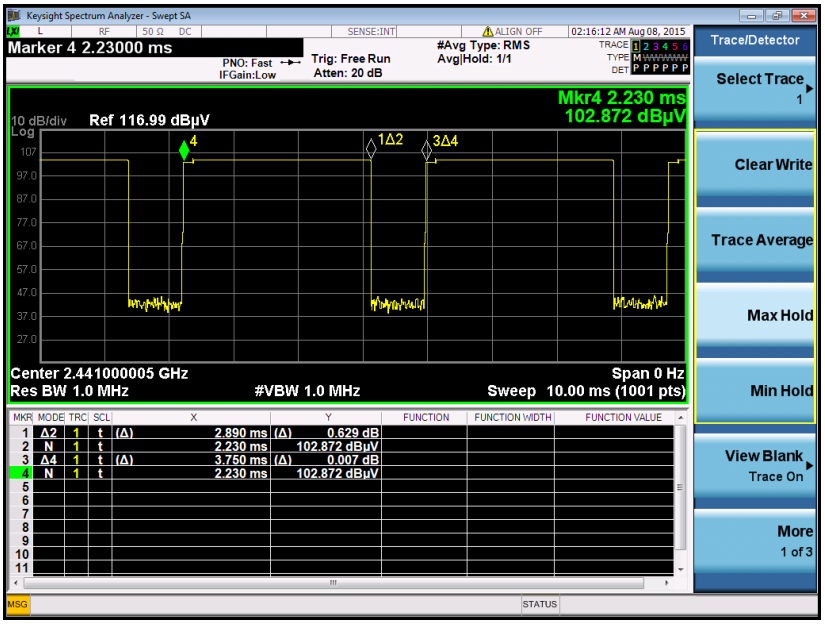
DH5 on time (Count Pulses) Plot on Channel 39



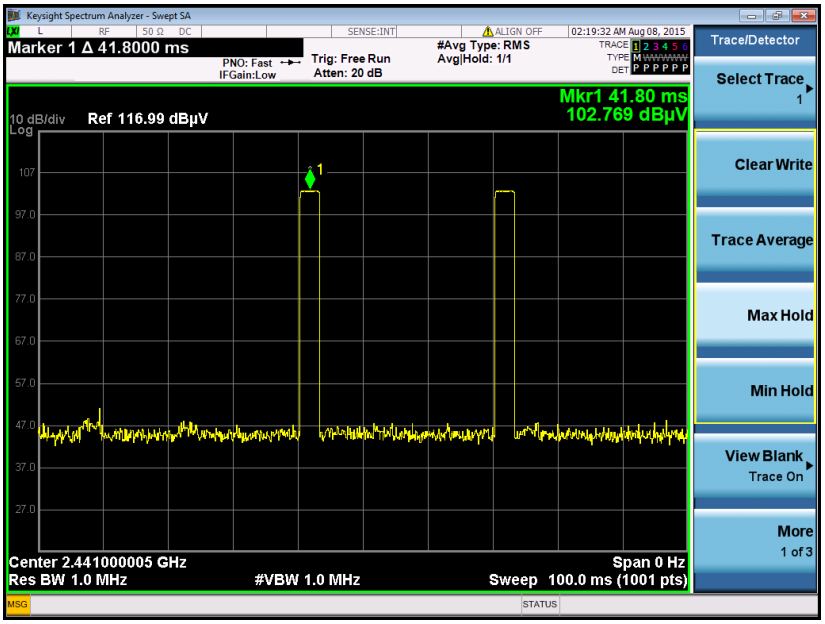
Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.88 / 100 = 5.76 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.79 dB
3. DH5 has the highest duty cycle worst case and is reported.

2DH5 on time (One Pulse) Plot on Channel 39



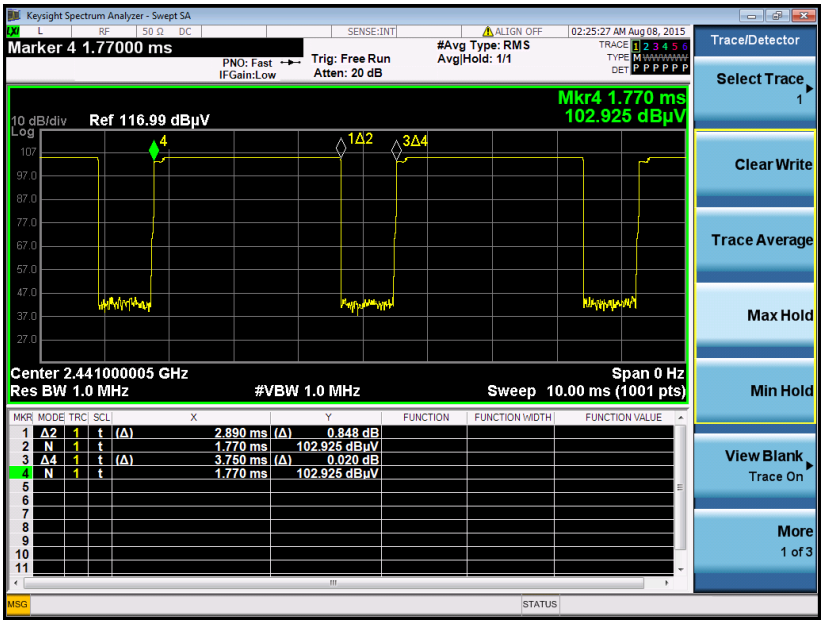
2DH5 on time (Count Pulses) Plot on Channel 39



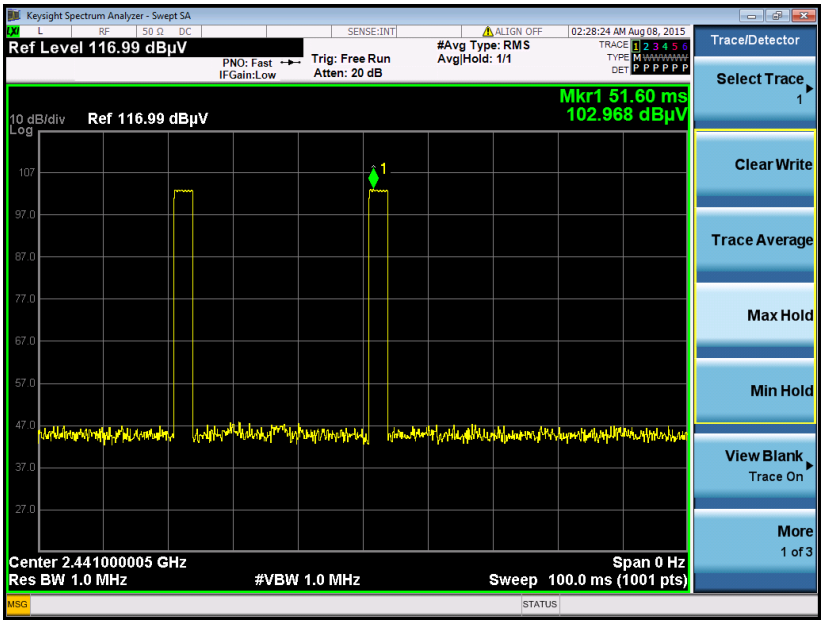
Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.89 / 100 = 5.78 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.76 dB
3. 2DH5 has the highest duty cycle worst case and is reported.

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.89 / 100 = 5.78 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.76 dB
3. 3DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the period to have DH5 packet completing one hopping sequence is

2.88 ms x 20 channels = 57.6 ms (for 1Mpbs)

2.89 ms x 20 channels = 57.8 ms (for 2Mpbs and 3Mbps)

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. [100ms / 57.6ms] = 2 hops

Thus, the maximum possible ON time:

2.88 ms x 2 = 5.76 ms (for 1Mpbs)

2.89 ms x 2 = 5.78 ms (for 2Mpbs and 3Mbps)

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

20 x log(5.76 ms/100ms) = -24.79 dB (for 1Mpbs)

20 x log(5.78 ms/100ms) = -24.76 dB (for 2Mpbs and 3Mbps)

3.8.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B of this test report.

3.8.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B of this test report.

3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

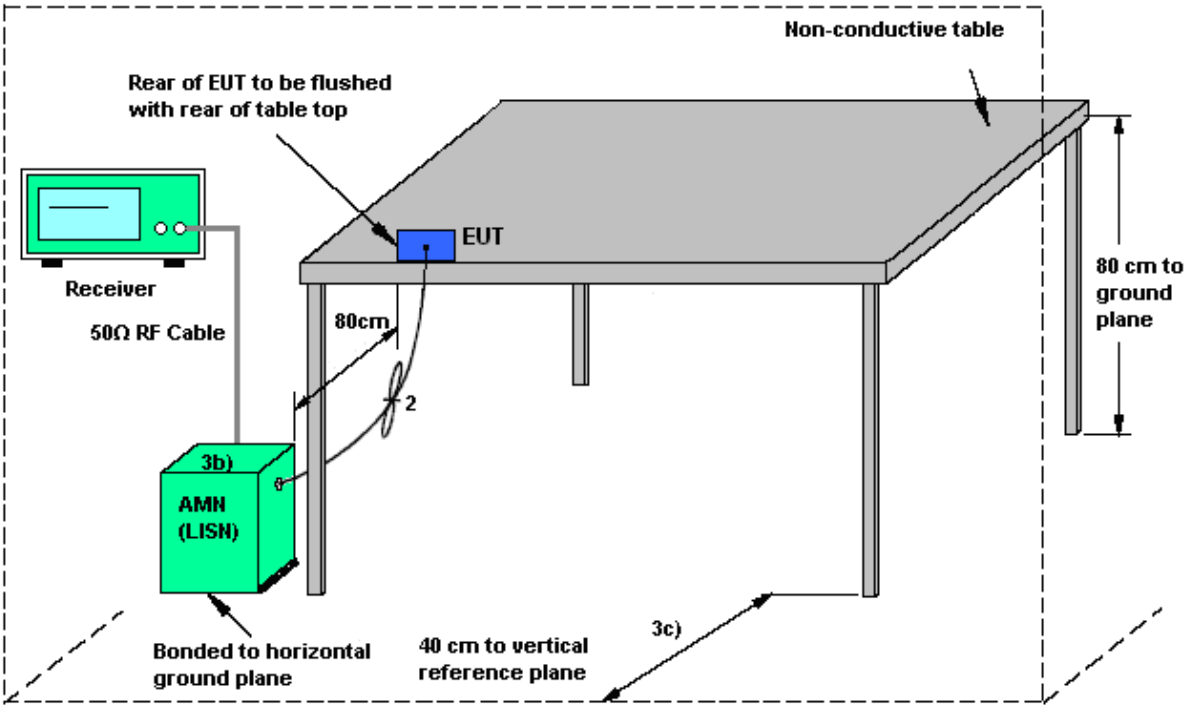
3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

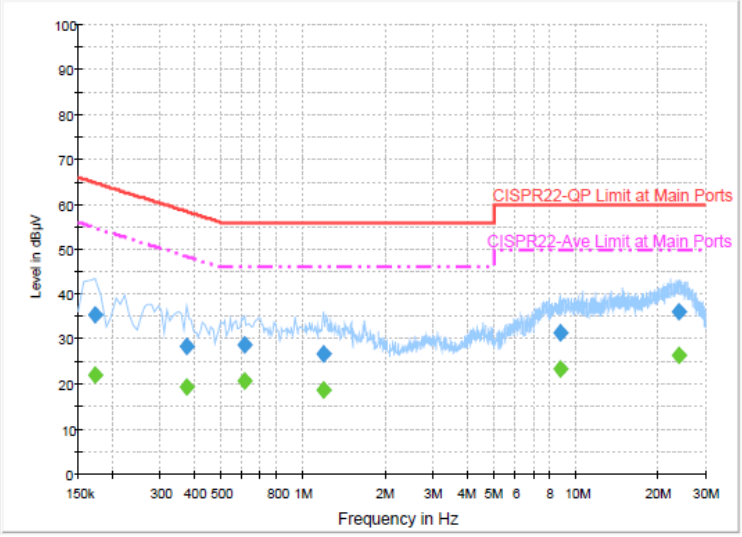
3.9.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.9.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	23~25℃
Test Engineer :	Eric Jeng	Relative Humidity :	58~61%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Bluetooth Link + USB Cable (Charging from Adapter) + Earphone		



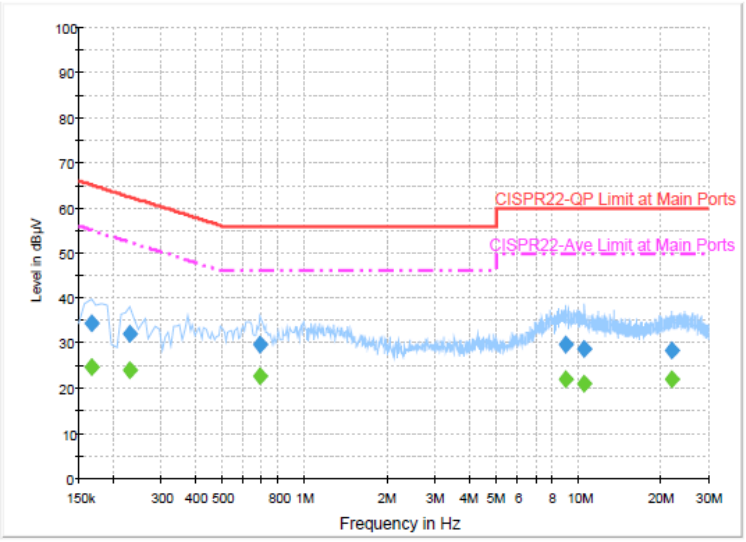
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	35.5	Off	L1	19.5	29.3	64.8
0.374000	28.5	Off	L1	19.5	29.9	58.4
0.614000	28.7	Off	L1	19.5	27.3	56.0
1.190000	26.8	Off	L1	19.6	29.2	56.0
8.750000	31.4	Off	L1	19.8	28.6	60.0
24.046000	36.1	Off	L1	20.0	23.9	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	22.2	Off	L1	19.5	32.6	54.8
0.374000	19.6	Off	L1	19.5	28.8	48.4
0.614000	20.9	Off	L1	19.5	25.1	46.0
1.190000	18.8	Off	L1	19.6	27.2	46.0
8.750000	23.5	Off	L1	19.8	26.5	50.0
24.046000	26.5	Off	L1	20.0	23.5	50.0

Test Mode :	Mode 1	Temperature :	23~25℃
Test Engineer :	Eric Jeng	Relative Humidity :	58~61%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + USB Cable (Charging from Adapter) + Earphone		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	34.4	Off	N	19.4	30.8	65.2
0.230000	32.2	Off	N	19.6	30.2	62.4
0.686000	29.9	Off	N	19.6	26.1	56.0
8.974000	29.9	Off	N	19.9	30.1	60.0
10.582000	28.7	Off	N	19.9	31.3	60.0
22.030000	28.3	Off	N	20.1	31.7	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	24.8	Off	N	19.4	30.4	55.2
0.230000	24.2	Off	N	19.6	28.2	52.4
0.686000	22.9	Off	N	19.6	23.1	46.0
8.974000	22.2	Off	N	19.9	27.8	50.0
10.582000	21.0	Off	N	19.9	29.0	50.0
22.030000	22.0	Off	N	20.1	28.0	50.0

3.10 Antenna Requirements

3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Agilent	E4416A	GB41292344	300MHz~40GHz	Jan. 14, 2015	Jul. 29, 2015~ Aug. 28, 2015	Jan. 13, 2016	Conducted (TH05-HY)
Power Sensor	Agilent	E9327A	US40441548	300MHz~40GHz	Jan. 14, 2015	Jul. 29, 2015~ Aug. 28, 2015	Jan. 13, 2016	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jun. 18, 2015	Jul. 29, 2015~ Aug. 28, 2015	Jun. 17, 2016	Conducted (TH05-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May 04, 2015	Jul. 29, 2015~ Aug. 28, 2015	May 03, 2016	Conducted (TH05-HY)
RF Cable	HARBOUR INDUSTRIES	LL142	Infinet CA3601-3601-DLL	0.1MHz~40GHz	Mar. 06, 2015	Jul. 29, 2015~ Aug. 28, 2015	Mar. 05, 2016	Conducted (TH05-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 03, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 02, 2015	Radiation (03CH11-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9kHZ~30MHz	Feb. 02, 2015	Aug. 07, 2015~ Aug. 12, 2015	Feb. 01, 2016	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	9kHz~1GHz	Dec. 04, 2014	Aug. 07, 2015~ Aug. 12, 2015	Dec. 03, 2015	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A	MY54130085	20Hz ~ 8.4GHz	Nov. 05, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 04, 2015	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 24, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 23, 2015	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Oct. 24, 2014	Aug. 07, 2015~ Aug. 12, 2015	Oct. 23, 2015	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 03, 2014	Aug. 07, 2015~ Aug. 12, 2015	Oct. 02, 2015	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 19, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 18, 2015	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 20, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 19, 2015	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1902247	1GHz~18GHz	Jul. 01, 2015	Aug. 07, 2015~ Aug. 12, 2015	Jun. 30, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHZ	Sep. 24, 2014	Aug. 07, 2015~ Aug. 12, 2015	Sep. 23, 2015	Radiation (03CH11-HY)
Test Software	Audix	E3	6.2009-8-24	N/A	N/A	Aug. 07, 2015~ Aug. 12, 2015	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24967/4 MY28419/4 MY28654/4	25GHz~40GHz	Nov. 06, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24967/4 MY28419/4 MY28654/4	30MHz~1GHz	Nov. 06, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24967/4 MY28419/4 MY28654/4	1GHz~25GHz	Nov. 06, 2014	Aug. 07, 2015~ Aug. 12, 2015	Nov. 05, 2015	Radiation (03CH11-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 07, 2015~ Aug. 12, 2015	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1~4m	N/A	Aug. 07, 2015~ Aug. 12, 2015	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Aug. 07, 2015~ Aug. 12, 2015	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Aug. 07, 2015~ Aug. 12, 2015	Jun. 01, 2016	Radiation (03CH11-HY)
Filter	Wainwright	WLKS4500- 8SS	SN19	4.5G Low Pass	Oct. 01, 2014	Aug. 07, 2015~ Aug. 12, 2015	Sep. 30, 2015	Radiation (03CH11-HY)
Filter	Microwave Circuits	H07G18G3	SN8009-01	7GHz HPF	Oct. 01, 2014	Aug. 07, 2015~ Aug. 12, 2015	Sep. 30, 2015	Radiation (03CH11-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz – 2.75GHz	Dec. 01, 2014	Aug. 15, 2015	Nov. 30, 2015	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 20, 2015	Aug. 15, 2015	Apr. 19, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2014	Aug. 15, 2015	Dec. 01, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 15, 2015	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 07, 2015	Aug. 15, 2015	Jan. 06, 2016	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Aug. 15, 2015	N/A	Conduction (CO05-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.26**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.9**

Appendix A. Radiated Spurious Emission

Test Engineer :	Nick Yu and James Chiu	Temperature :	22~24°C
		Relative Humidity :	55~58%

<1 Mbps>

15C 2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2341.85	42.68	-31.32	74	43.68	27.1	5.95	34.05	154	152	P	H
		2341.85	17.89	-36.11	54	-	-	-	-	-	-	A	H
	*	2402	103.34	-	-	104.14	27.23	6.01	34.04	154	152	P	H
	*	2402	78.55	-	-	-	-	-	-	-	-	A	H
													H
													H
		2389.3	42.88	-31.12	74	43.68	27.23	6.01	34.04	100	133	P	V
		2389.3	18.09	-35.91	54	-	-	-	-	-	-	A	V
	*	2402	93.15	-	-	93.95	27.23	6.01	34.04	100	133	P	V
	*	2402	68.36	-	-	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		2317.22	42.38	-31.62	74	43.54	27.01	5.89	34.06	134	152	P	H
		2317.22	17.59	-36.41	54	-	-	-	-	-	-	A	H
	*	2441	104.58	-	-	105.19	27.37	6.04	34.02	134	152	P	H
	*	2441	79.79	-	-	-	-	-	-	-	-	A	H
		2499	42.29	-31.71	74	42.7	27.5	6.09	34	134	152	P	H
		2499	17.5	-36.5	54	-	-	-	-	-	-	A	H
		2354.27	42.12	-31.88	74	43.08	27.14	5.95	34.05	114	132	P	V
		2354.27	17.33	-36.67	54	-	-	-	-	-	-	A	V
	*	2441	92.99	-	-	93.6	27.37	6.04	34.02	114	132	P	V
	*	2441	68.2	-	-	-	-	-	-	-	-	A	V
		2486.51	43.4	-30.6	74	43.86	27.46	6.09	34.01	114	132	P	V
		2486.51	18.61	-35.39	54	-	-	-	-	-	-	A	V

BT CH 78 2480MHz	*	2480	104.59	-	-	105.07	27.46	6.07	34.01	259	23	P	H
	*	2480	79.8	-	-	-	-	-	-	-	-	A	H
		2483.55	45.53	-28.47	74	45.99	27.46	6.09	34.01	259	23	P	H
		2483.55	20.74	-33.26	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	93.23	-	-	93.71	27.46	6.07	34.01	104	143	P	V
	*	2480	68.44	-	-	-	-	-	-	-	-	A	V
		2488.66	42.54	-31.46	74	42.96	27.5	6.09	34.01	104	143	P	V
		2488.66	17.75	-36.25	54	-	-	-	-	-	-	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C 2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		4806	36.8	-37.2	74	61.94	31.3	8.65	65.09	100	0	P	H
		4806	12.01	-41.99	54	-	-	-	-	-	-	A	H
													H
													H
		4806	37.27	-36.73	74	62.41	31.3	8.65	65.09	100	0	P	V
		4806	12.48	-41.52	54	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		4884	37.09	-36.91	74	61.96	31.41	8.74	65.02	100	0	P	H
		4884	12.3	-41.7	54	-	-	-	-	-	-	A	H
		7320	43.27	-30.73	74	61.63	36.32	10.39	65.07	100	0	P	H
		7320	18.48	-35.52	54	-	-	-	-	-	-	A	H
		4884	37.09	-36.91	74	61.96	31.41	8.74	65.02	100	0	P	V
		4884	12.3	-41.7	54	-	-	-	-	-	-	A	V
		7320	41.15	-32.85	74	59.51	36.32	10.39	65.07	100	0	P	V
		7320	16.36	-37.64	54	-	-	-	-	-	-	A	V
BT CH 78 2480MHz		4962	37.81	-36.19	74	62.37	31.54	8.83	64.93	100	0	P	H
		4962	13.02	-40.98	54	-	-	-	-	-	-	A	H
		7440	41.93	-32.07	74	59.91	36.59	10.52	65.09	100	0	P	H
		7440	17.14	-36.86	54	-	-	-	-	-	-	A	H
		4962	37.95	-36.05	74	62.51	31.54	8.83	64.93	100	0	P	V
		4962	13.16	-40.84	54	-	-	-	-	-	-	A	V
		7440	41.27	-32.73	74	59.25	36.59	10.52	65.09	100	0	P	V
		7440	16.48	-37.52	54	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

<2Mbps>

15C 2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2368.76	44.24	-29.76	74	45.08	27.19	6.01	34.04	203	153	P	H
		2368.76	19.48	-34.52	54	-	-	-	-	-	-	A	H
	*	2402	103.4	-	-	104.2	27.23	6.01	34.04	203	153	P	H
	*	2402	78.64	-	-	-	-	-	-	-	-	A	H
													H
													H
		2375	43.4	-30.6	74	44.24	27.19	6.01	34.04	100	132	P	V
		2375	18.64	-35.36	54	-	-	-	-	-	-	A	V
	*	2402	92.57	-	-	93.37	27.23	6.01	34.04	100	132	P	V
	*	2402	67.81	-	-	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		2375.74	42.81	-31.19	74	43.65	27.19	6.01	34.04	144	149	P	H
		2375.74	18.05	-35.95	54	-	-	-	-	-	-	A	H
	*	2441	103.23	-	-	103.84	27.37	6.04	34.02	144	149	P	H
	*	2441	78.47	-	-	-	-	-	-	-	-	A	H
		2491.83	42.87	-31.13	74	43.28	27.5	6.09	34	144	149	P	H
		2491.83	18.11	-35.89	54	-	-	-	-	-	-	A	H
		2372.51	41.86	-32.14	74	42.7	27.19	6.01	34.04	112	132	P	V
		2372.51	17.1	-36.9	54	-	-	-	-	-	-	A	V
	*	2441	92.86	-	-	93.47	27.37	6.04	34.02	112	132	P	V
	*	2441	68.1	-	-	-	-	-	-	-	-	A	V
		2485.94	43.52	-30.48	74	43.98	27.46	6.09	34.01	112	132	P	V
		2485.94	18.76	-35.24	54	-	-	-	-	-	-	A	V

BT CH 78 2480MHz	*	2480	104.05	-	-	104.53	27.46	6.07	34.01	259	26	P	H
	*	2480	79.29	-	-	-	-	-	-	-	-	A	H
		2483.55	45.62	-28.38	74	46.08	27.46	6.09	34.01	259	26	P	H
		2483.55	20.86	-33.14	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	92.56	-	-	93.04	27.46	6.07	34.01	103	144	P	V
	*	2480	67.8	-	-	-	-	-	-	-	-	A	V
		2486.7	42.72	-31.28	74	43.18	27.46	6.09	34.01	103	144	P	V
		2486.7	17.96	-36.04	54	-	-	-	-	-	-	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C 2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		4806	36.69	-37.31	74	61.83	31.3	8.65	65.09	100	0	P	H
		4806	11.93	-42.07	54	-	-	-	-	-	-	A	H
													H
													H
		4806	36.64	-37.36	74	61.78	31.3	8.65	65.09	100	0	P	V
		4806	11.88	-42.12	54	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		4884	37.42	-36.58	74	62.29	31.41	8.74	65.02	100	0	P	H
		4884	12.66	-41.34	54	-	-	-	-	-	-	A	H
		7320	41.63	-32.37	74	59.99	36.32	10.39	65.07	100	0	P	H
		7320	16.87	-37.13	54	-	-	-	-	-	-	A	H
		4884	38.3	-35.7	74	63.17	31.41	8.74	65.02	100	0	P	V
		4884	13.54	-40.46	54	-	-	-	-	-	-	A	V
		7320	40.79	-33.21	74	59.15	36.32	10.39	65.07	100	0	P	V
		7320	16.03	-37.97	54	-	-	-	-	-	-	A	V
BT CH 78 2480MHz		4962	38.34	-35.66	74	62.9	31.54	8.83	64.93	100	0	P	H
		4962	13.58	-40.42	54	-	-	-	-	-	-	A	H
		7440	41.81	-32.19	74	59.79	36.59	10.52	65.09	100	0	P	H
		7440	17.05	-36.95	54	-	-	-	-	-	-	A	H
		4962	38.5	-35.5	74	63.06	31.54	8.83	64.93	100	0	P	V
		4962	13.74	-40.26	54	-	-	-	-	-	-	A	V
		7440	41.45	-32.55	74	59.43	36.59	10.52	65.09	100	0	P	V
		7440	16.69	-37.31	54	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

<3Mbps>

15C 2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2352.77	42.66	-31.34	74	43.62	27.14	5.95	34.05	203	153	P	H
		2352.77	17.9	-36.1	54	-	-	-	-	-	-	A	H
	*	2402	103.73	-	-	104.53	27.23	6.01	34.04	203	153	P	H
	*	2402	78.97	-	-	-	-	-	-	-	-	A	H
													H
													H
		2379.81	42.36	-31.64	74	43.2	27.19	6.01	34.04	100	133	P	V
		2379.81	17.6	-36.4	54	-	-	-	-	-	-	A	V
	*	2402	92.67	-	-	93.47	27.23	6.01	34.04	100	133	P	V
	*	2402	67.91	-	-	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		2387.14	41.98	-32.02	74	42.78	27.23	6.01	34.04	182	151	P	H
		2387.14	17.22	-36.78	54	-	-	-	-	-	-	A	H
	*	2441	103.79	-	-	104.4	27.37	6.04	34.02	182	151	P	H
	*	2441	79.03	-	-	-	-	-	-	-	-	A	H
		2499	42.35	-31.65	74	42.76	27.5	6.09	34	182	151	P	H
		2499	17.59	-36.41	54	-	-	-	-	-	-	A	H
		2377.83	43.09	-30.91	74	43.93	27.19	6.01	34.04	113	132	P	V
		2377.83	18.33	-35.67	54	-	-	-	-	-	-	A	V
	*	2441	92.52	-	-	93.13	27.37	6.04	34.02	113	132	P	V
	*	2441	67.76	-	-	-	-	-	-	-	-	A	V
		2496.2	42.31	-31.69	74	42.72	27.5	6.09	34	113	132	P	V
		2496.2	17.55	-36.45	54	-	-	-	-	-	-	A	V

BT CH 78 2480MHz	*	2480	104.39	-	-	104.87	27.46	6.07	34.01	230	10	P	H
	*	2480	79.63	-	-	-	-	-	-	-	-	A	H
		2483.76	45.67	-28.33	74	46.13	27.46	6.09	34.01	230	10	P	H
		2483.76	20.91	-33.09	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	92.42	-	-	92.9	27.46	6.07	34.01	100	146	P	V
	*	2480	67.66	-	-	-	-	-	-	-	-	A	V
		2484.32	42.9	-31.1	74	43.36	27.46	6.09	34.01	100	146	P	V
		2484.32	18.14	-35.86	54	-	-	-	-	-	-	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C 2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		4806	36.84	-37.16	74	61.98	31.3	8.65	65.09	100	0	P	H
		4806	12.08	-41.92	54	-	-	-	-	-	-	A	H
													H
													H
		4806	36.77	-37.23	74	61.91	31.3	8.65	65.09	100	0	P	V
		4806	12.01	-41.99	54	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		4884	37.2	-36.8	74	62.07	31.41	8.74	65.02	100	0	P	H
		4884	12.44	-41.56	54	-	-	-	-	-	-	A	H
		7320	42.06	-31.94	74	60.42	36.32	10.39	65.07	100	0	P	H
		7320	17.3	-36.7	54	-	-	-	-	-	-	A	H
		4884	36.82	-37.18	74	61.69	31.41	8.74	65.02	100	0	P	V
		4884	12.06	-41.94	54	-	-	-	-	-	-	A	V
		7320	41.45	-32.55	74	59.81	36.32	10.39	65.07	100	0	P	V
		7320	16.69	-37.31	54	-	-	-	-	-	-	A	V
BT CH 78 2480MHz		4962	37.62	-36.38	74	62.18	31.54	8.83	64.93	100	0	P	H
		4962	12.86	-41.14	54	-	-	-	-	-	-	A	H
		7440	41.97	-32.03	74	59.95	36.59	10.52	65.09	100	0	P	H
		7440	17.21	-36.79	54	-	-	-	-	-	-	A	H
		4962	37.98	-36.02	74	62.54	31.54	8.83	64.93	100	0	P	V
		4962	13.22	-40.78	54	-	-	-	-	-	-	A	V
		7440	41.74	-32.26	74	59.72	36.59	10.52	65.09	100	0	P	V
		7440	16.98	-37.02	54	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT LF		31.89	16.13	-23.87	40	30.23	17.06	0.67	31.83	-	-	P	H
		48.9	10.92	-29.08	40	33.6	8.08	1.04	31.8	-	-	P	H
		174.18	16.33	-27.17	43.5	37.92	8.55	1.64	31.78	-	-	P	H
		832.7	22.88	-23.12	46	31.11	20.13	3.4	31.76	116	44	P	H
		925.1	22.37	-23.63	46	29.72	20.2	3.68	31.23	-	-	P	H
		952.4	22.49	-23.51	46	29.28	20.55	3.68	31.02	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	21.64	-18.36	40	34.8	18	0.67	31.83	-	-	P	V
		58.62	21.94	-18.06	40	47.29	5.41	1.04	31.8	108	27	P	V
		135.03	14.61	-28.89	43.5	33.73	11.2	1.46	31.78	-	-	P	V
		893.6	22.42	-23.58	46	30.23	20.1	3.55	31.46	-	-	P	V
		911.8	23	-23	46	30.67	20.12	3.55	31.34	-	-	P	V
		951	22.72	-23.28	46	29.49	20.58	3.68	31.03	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

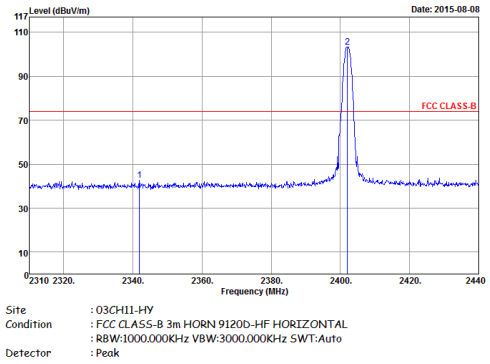
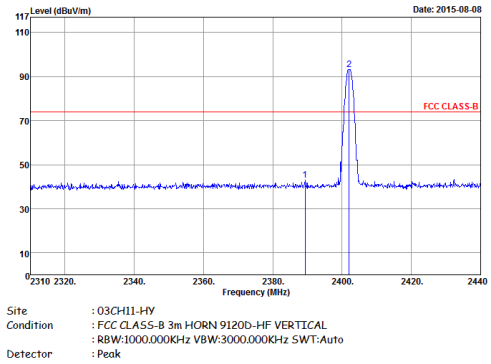
Appendix B. Radiated Spurious Emission Plots

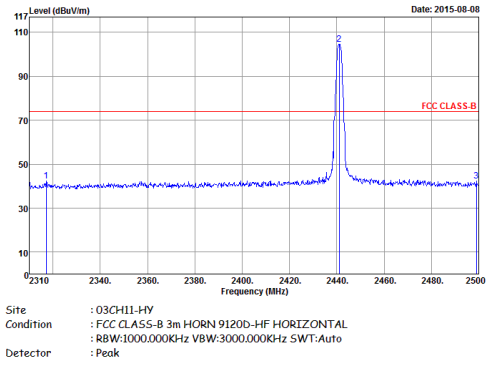
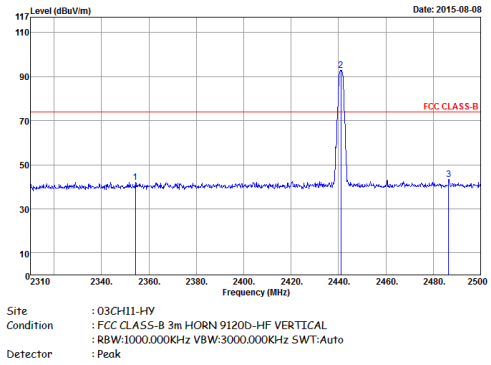
Test Engineer :	Nick Yu and James Chiu	Temperature :	22~24°C
		Relative Humidity :	55~58%

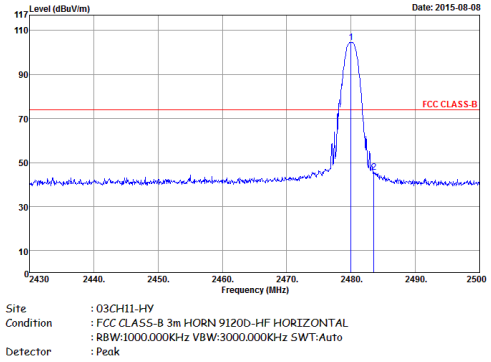
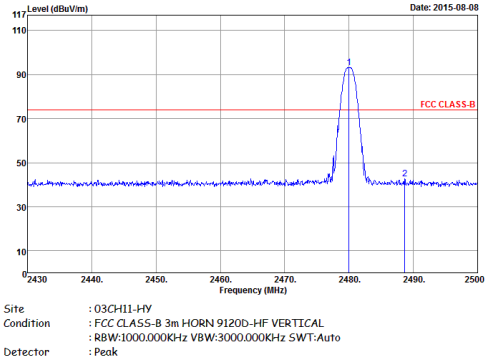
<1Mbps>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

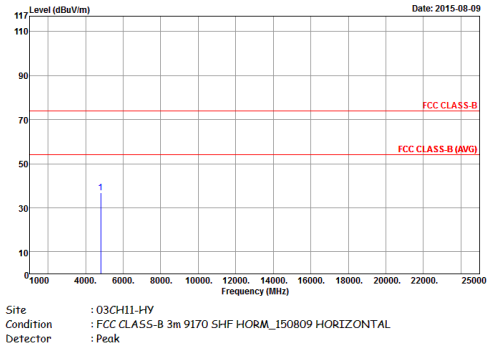
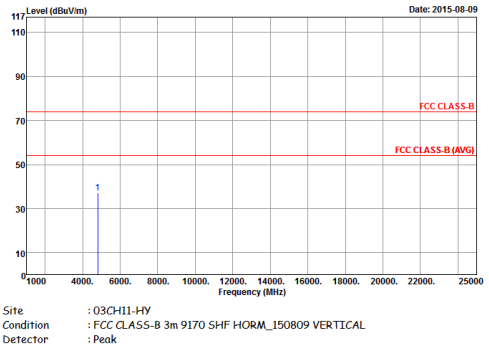
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH00 2402MHz	
1	Horizontal	Vertical
Peak		

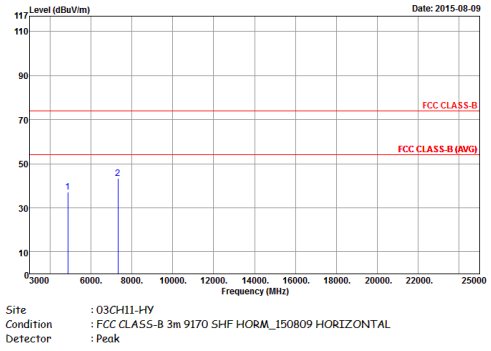
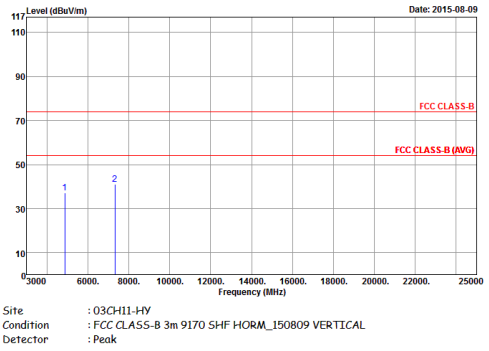
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz	
1	Horizontal	Vertical
Peak		

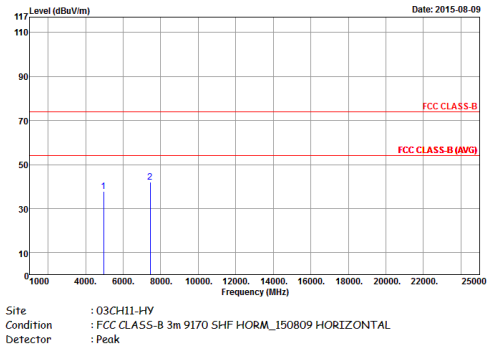
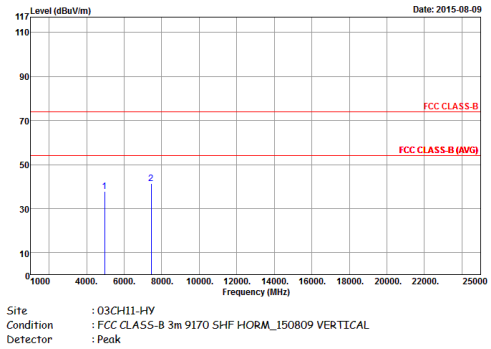
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
1	Horizontal	Vertical
Peak		

2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.		

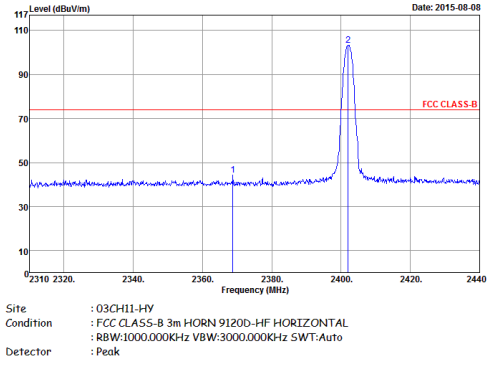
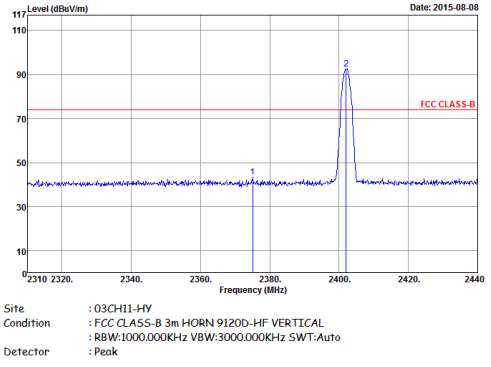
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
1	Horizontal	Vertical
Peak Avg.		

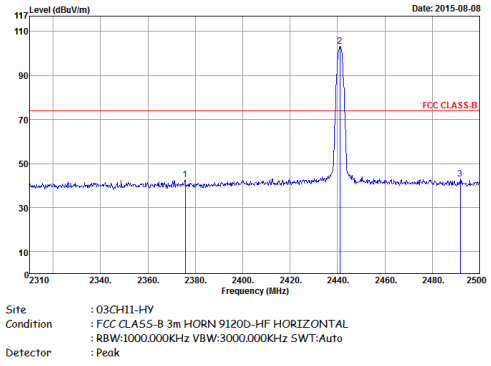
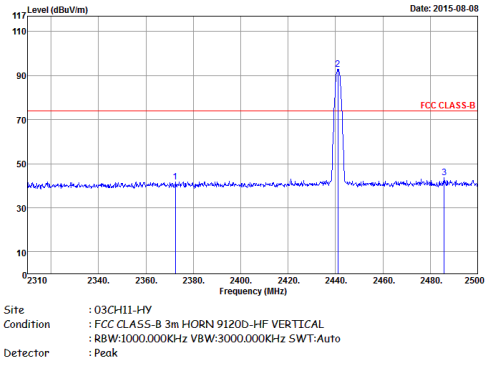
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH78 2480MHz	
1	Horizontal	Vertical
Peak Avg.		

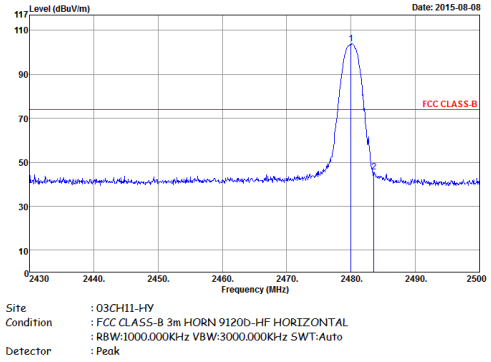
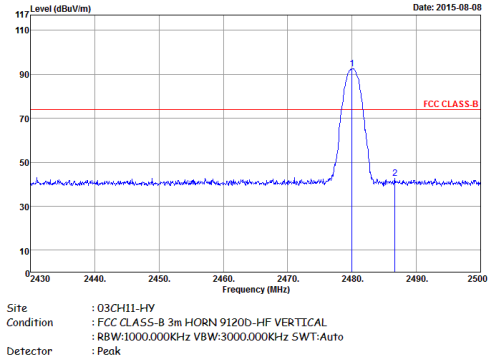
<2Mbps>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

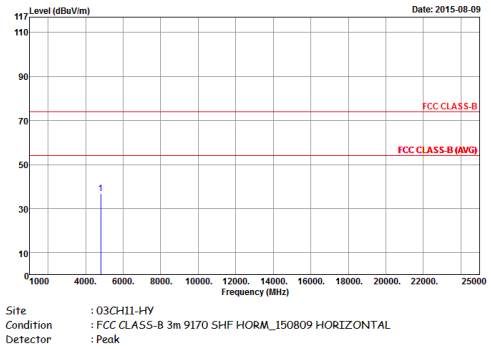
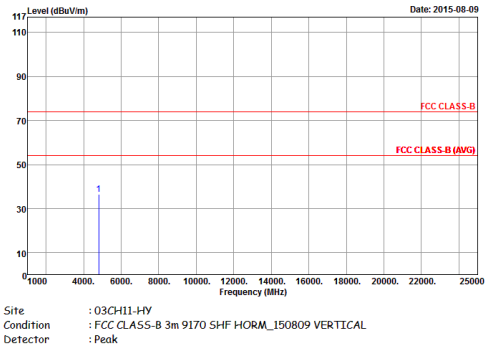
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH00 2402MHz	
1	Horizontal	Vertical
Peak		

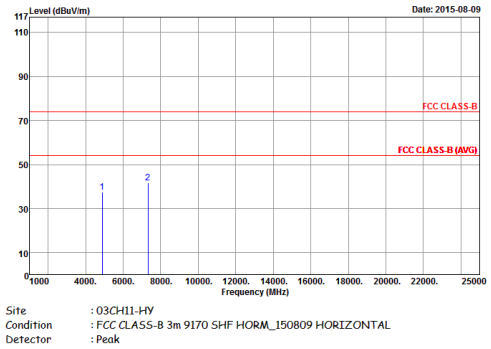
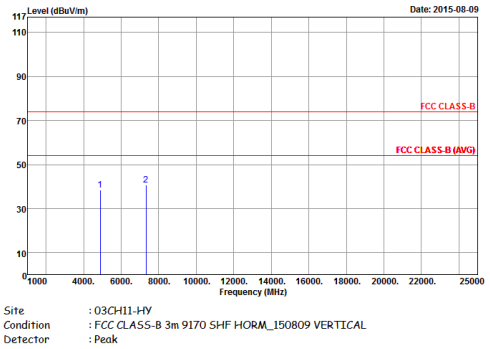
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz	
1	Horizontal	Vertical
Peak		

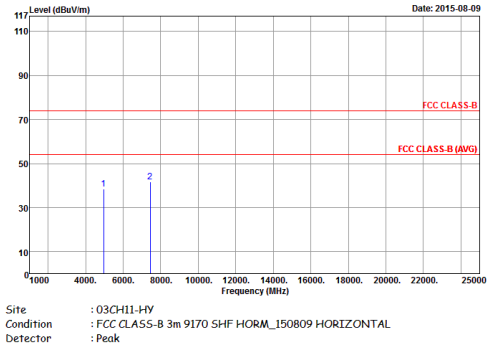
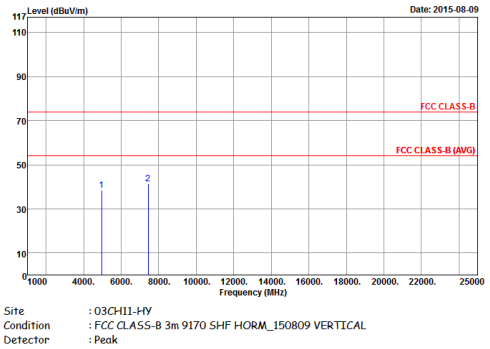
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
1	Horizontal	Vertical
Peak		

2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.		

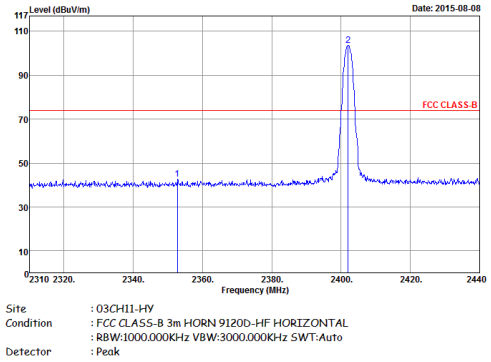
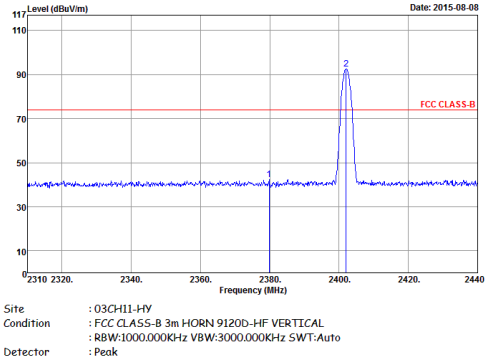
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
1	Horizontal	Vertical
Peak Avg.		

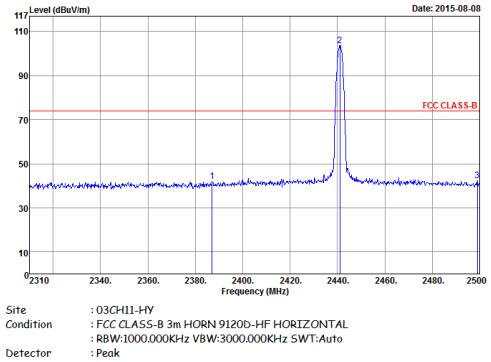
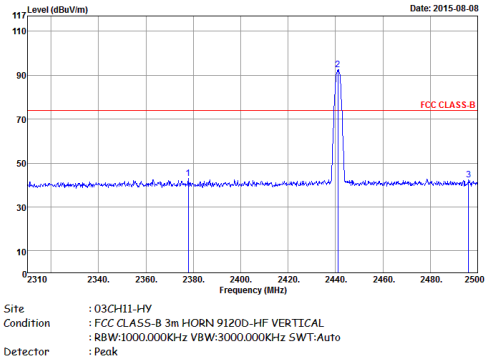
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH78 2480MHz	
1	Horizontal	Vertical
Peak Avg.		

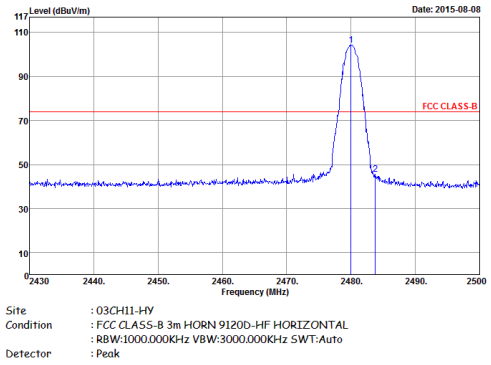
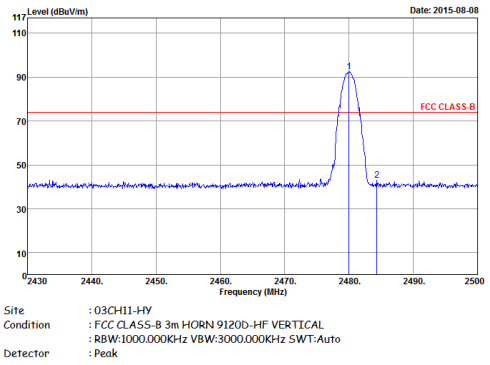
<3Mbps>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

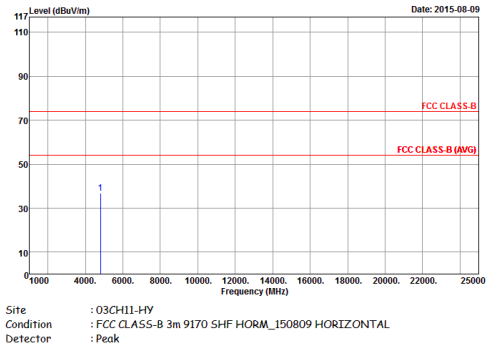
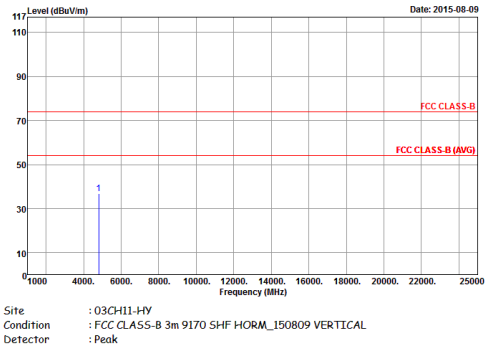
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH00 2402MHz	
1	Horizontal	Vertical
Peak		

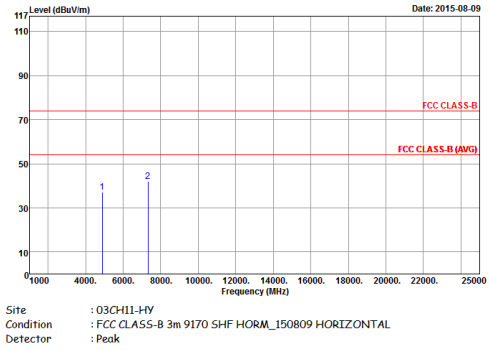
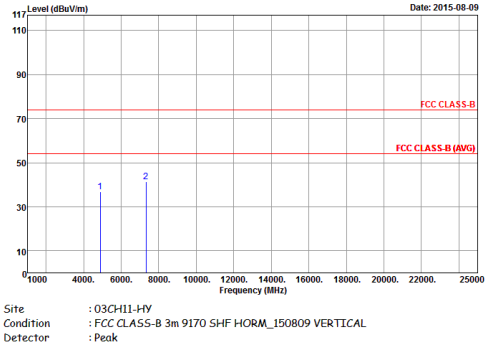
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz	
1	Horizontal	Vertical
Peak		

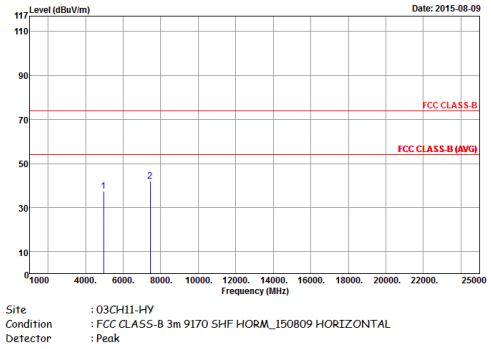
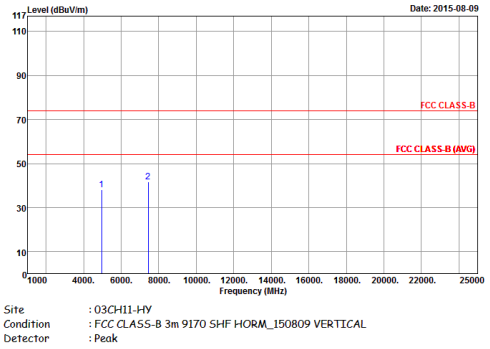
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
1	Horizontal	Vertical
Peak		

2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.		

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
1	Horizontal	Vertical
Peak Avg.		

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH78 2480MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

2.4GHz BT (LF)

BT	2.4GHz 2400~2483.5MHz	
ANT	BT LF	
1	Horizontal	Vertical
QP / Peak